CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(*denotes that this work is advertised in Engineering News)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids. close.	Work. Place.	See issue.
6-19	**Dikes, Vallejo, Cal.**(S.)	5-13
6-19	Boiler-house, Phila, Pa(S)	6-10
6-21	Water disposal plant, North Chicago, Ill(S.)	6- 3
6-29*	Dredging, Newport, R. I.(S)	6- 3
7-10	Air compressors, Wash., D. C.(S)	6-17
7-10	Turbo-alternators, New York.(S)	6-17
7-10	Power plant piping, Boston, Mass.(S)	6-17
7-10	Elec. equip., Phila., Pa.(S)	6-17
7-10	Power plant equip., Bremerton, Wash.(S)	6-17
7-10	Boilers, etc., Vallejo, Cal.(S)	6-17

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

6-19*	Gas holder, Kingston, Ont.	5-27
6-19	Lighting, Evansville, Ind.	6- 3
6-19	Lighting, Richmond, O.	6-17
6-21*	Heating plant, Ft. Sill, Okla.	5-27
6-21*	Light fixtures, West Point, N. Y.	6- 3
6-21	Lighting, Bridgeport, Ohio	6-10
6-21	Electric equipment, New York	6-10
6-23*	Light plant, Delphos, Kan.	6-10
6-23	Fixtures, Jersey City, N. J.	6-17
6-28	Boilers, New York	6-17
6-28	Elec. equip., New York	6-17
6-30*	Conduit, Toronto, Ont	6-10
7- 1*	Lighting, Boston, Mass.	5- 6
7-10	Power plant equip., Bremerton, Wash.	6-17
7-10	Boilers, etc., Vallejo, Cal.	6-17
7-10	Elec. equip., Philadelphia, Pa.	6-17
7-10	Power plant piping, Boston, Mass.	6-17
7-10	Turbo-alternators, New York	6-17
8- 2*	Generating station, Winnipeg, Man.	6-10

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6-17	Bridge approach, Chicago, Ill.	6-17
6-18*	Bridge, etc., Holyoke, Mass.	6-10
6-18	Bridge, Cincinnati, Ohio	5-27
6-19	Concrete arch, Lima, Ohio	6- 3
6-20*	Bridge, Portland, Ore.	6- 3
6-21	Bridge, Buffalo, N. Y.	6-17
6-21	Bridge, Savannah, Ga.	6-17
6-21	Bridge, San Jose, Cal.	6-17
6-22	Bridge, Greenville, S. C.	6-17
6-22	Bridges, Dickinson, N. Dak.	6- 3
6-22	Overhead crossing, Cleveland, Ohio	6- 3
6-24	Bridge, San Jose, Cal	6-10
6-26	Bridge work, Cleveland, Ohio	6-10
6-26*	Superstructure, Las Animas, Colo.	6-10
6-29	Substructure, etc., Marietta, O.	6-10
7- 1	Bridge, Toledo, Ohio	4-29
7- 1*	Bridge, Reading, Pa.	6-17
7- 1	Bridge, Sewickley, Pa.	6-17
7- 3	Bridge, Piggott, Ark	6-10
7- 8	Superstructure, Barboursville, W. Va.	6-17
7- 8	Superstructure, Minneapolis, Minn.	6-17
7-10	Bridge, Hailey, Idaho	5-20

BUILDINGS.

6-18	Soldiers' Home, La Fayette, Ind.	6- 3
6-18	Quarters, Ft. Dade, Fla	6-10
6-19	Boiler house, Philadelphia, Pa.	6-10
6-19	Buildings, Carthage, Ohio	5-27
6-21	Post-office, Gulfport, Miss.	5-27
6-21	Schools, New York	6-10
6-21	Police station, Wash., D. C.	6-17
6-23	School, Baltimore, Md.	6-17
6-25	Town-hall, Estevan, Sask.	6-17
6-26	Struc. steel, Leavenworth, Kan.	6-10
6-26	Struc. steel, Atlanta, Ga	6-10
6-28*	Interior work, San Francisco, Cal.	5-27
6-28	Engine house, New York	6-17
6-28	Schools, New York	6-17
6-29	Court-house, Springfield, Mass.	6-17
6-29	Post-office, Clarinda, Iowa	6-13
6-29	Brick, Atlanta, Ga.	6-10
6-30*	Post-office, Moscow, Idaho	5.27
6-30*	Quarters, Ft. Monroe, Va.	6- 3
6-30	Bank, Jackson, Ky.	6-17
6-30	Approaches, Wash., D. C.	6-17
6-31	Masonic temple, Athens, Ohio	5-20
7- 1*	Structural steel, Portland, Ore.	6-17
7- 2	School, Indianapolis, Ind.	6-17
7-12*	Post-office, Winchester, Va.	6-10
7-12	School, St. Paul, Minn.	6-17
7-14	Post-office, etc., Paducah, Ky.	6-17
7-15*	Buildings, China (Foreign)	5-27
7-15*	Post-office, etc., Newbern, N. C.	6-10
7-16*	Post-office, Corsicana, Tex.	6- 3
7-28	Masonic temple, Sharon, Pa.	6-17

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6-18	Water connections, South Bend, Ind	6-17
6-18	Pipe, Jacksonville, Fla	6-17
6-19	Intake pipe, Sheboygan, Wis.	6-17
6-21	Water-pipe, Albany, N. Y.	6-17
6-21	Water-works, Bryant, S. Dak.	6-17
6-21	Pump-house, etc., Burlington, Ont.	6-17
6-21	Water disposal plants, North Chicago, Ill.	6- 3
6-21*	Water-works, Carmen, Okla.	6- 3
6-21	Filtration plant, Fort Collins, Colo.	6-10
6-21	Stand-pipes, Chicago, Ill.	6-10
6-21*	Water pipe, Washington, D. C.	6-17
6-22*	Relining reservoir, etc., Reading, Pa.	6- 3
6-23	Mains, Brooklyn, N. Y	6-10
6-23	Hydrants, New York	6-17
6-23	Water-works, Delphos, Kan	6-17
6-24	Water system, repairs, etc., Fort Kearney, R. I	6-17
6-24	Water-works, Auburn, N. Y.	6-17
6-24	Water-works, Tuttle, Okla	6-17
6-28	Water-works, Knox, Ind.	6-17
6-28	Water-works, Selkirk, Man.	6-17
6-29	Reservoir, Barre, Vt.	6-10
6-29	Tank, etc., Newman, Ohio	6-10
6-30*	Quarters, Ft. Monroe, Va.	6 3
7- 1*	**Valves, hydrants, Manila**	5- 6
7- 2*	Dams, etc., Fort Meade. S. Dak.	6- 3
7- 9	Water-pipe, West Carthage, N. Y	6-17
7-10*	Wasteway, Sunnyside, Wash.	5-27

SEWERS.

6-17	Sewers, Linden, N. J.	6-17
6-17	Sewer, Washington, N. J.	6-17
6-17	Sewers, Hampton, Va.	6-17
6-18	Sewer, South Bend, Ind.	6- 3
6-18*	Sewer, Louisville, Ky.	6- 3
6-19	Sewer, Roanoke, Va.	6-10
6-19	Cast-iron pipe, Farmington, Conn.	6-17
6-20	Sewers, Struthers, Ohio	6-10
6-21*	Sewers, Indiana, Pa.	6-10
6-21	Sewer, Prince Albert, Sask.	6-17
6-21	Sewers, Bellevue, Pa	6-17
6-21	Sewers, etc., Cincinnati, Ohio	6-17
6-21	Sewer, Grand Forks, N. Dak.	6-17
6-22*	Sewers, Washington, D. C.	6-17
6-22	Sewers, Columbus, Ohio	6-17
6-22	Sewer, Toledo, Ohio	6-17
6-22	Sewers, Norwich, N. Y.	6-10
6-23	Disposal plant, Mount Kisco, N.Y.	6-10
6-23	Sewers, Cleveland, Ohio	6-17
6-24	Sewer system, Auburn, Neb.	6-17
6-25	Sewers, Aberdeen, S. Dak.	6-10
6-25*	Sewer, Louisville, Ky.	6- 3
6-26	Sewer, Roanoke, Va	6-17
6-28	Sewer system, Polk, Pa	6-17
6-28	Sewer, Oswego, N. Y.	6-10
6-28*	Sewers, Westfield, N. J.	6-10
6-29	Pumping station, Jackson, Ohio.	6-10
6-29	Pipe sewers, Ridgewood, N. J.	6-17
7- 2*	Sewer, Louisville, Ky.	6- 3
7- 2*	Sewer, Louisville, Ky.	6-17
7- 9*	Sewer, Louisville, Ky.	6-17
7-10*	Sewers, Albuquerque, N. Mex.	5-27

STREETS AND ROADS.

6-18	Grading, etc., Lorain, Ohio	6-10
6-18	Grading etc., Columbus, Ohio	6- 3
6-18	Paving, South Bend, Ind.	6- 3
6-18	Road work, Hartford, Conn.	6-17
6-18	Pavement, etc., Boston, Mass.	6-17
6-19*	Grading, etc., Washington, D. C.	6-10
6-21*	Surfacing, etc., Boston, Mass.	6-10
6-21	Street improvement, Albany, N. Y.	6-17
6-21*	Paving, Dorranceton, Pa.	6-17
6-21	Paving, Hanover, Pa.	6-17
6-21	Road, Staunton, Va.	6-17
6-21	Paving, Canton, Ohio	6-17
6-21	Pavement, Webb City, Mo.	6-17
6-22	Sidewalks, South Orange, N. J.	6-17
6-22	Grading, etc., Brackenridge, Pa.	6-17
6-22	Highway impvt. bonds, Wilmington, Del.	
6-22	Grading, etc., Caldwell, Ohio	6-17
6-22	Pavement, Clarinda, Iowa	6-17
6-22	Grading, etc., Centralia, Wash.	6-17
6-22*	Excavation, etc., Ft Totten, N. Y.	6- 3
6-23	Paving, Wellington, Kan.	6-10
6-23	Regulating, etc., Brooklyn, N. Y.	6-10
6-23	Sidewalks, West Point, Miss.	6-17
6-23	Paving, Athens, Ohio	6-17
6-23	Paving, Tiffin, Ohio	6-17
6-23	Paving, Fond du Lac, Wis.	6-17
6-24	Grading, etc., Kimball, Mich.	6-10
6-25	Paving, Bradentown, Fla.	6-10
6-25*	Roads, etc., Ft. Dupont, Del.	6- 3
6-26	Sidewalk, Madison, Ind.	6- 3
6-26*	Grading, Washington, D. C.	6-17
6-26	Sidewalks, St. Charles, Man.	6-17
6-28*	Macadamizing, etc., Hackensack, N. J.	6-10
6-28*	Pavement, etc., McAlester, Okla.	6-17
6-29	Broken stone, New Brighton, N. Y.	6-17
6-30	Repairing roads, etc., Paterson, N. J.	6-17
6-30	Road, Danville, Ind.	6-17
7- 5	Roads, Columbus, Ind.	6-17
7- 5	Roads, Vernon, Ind.	6-17
7- 6	Road, Versailles, Ind.	6-17
7- 6	Road, Monticello, Ind.	6-17
7- 6	Roads, Vincennes, Ind.	6-17
7- 6	Roads, Rushville, Ind.	6-17
7- 6	Road, Morocco, Ind	6-17
7- 8	Roads, Fort Barrancas, Fla.	6-17
7-10	Street impvt., Dalton, Ohio	6-17

MISCELLANEOUS.

6-18	Granite, New York, N. Y.	6-17
6-19	Drain, Billings, Mont.	6-17
6-19	**Dikes, Vallejo, Cal.**	5-13
6-19	Dredging, etc., Norfolk, Va.	6-10
6-19*	Machinery, Panama	6-10
6-21*	Cement, Cincinnati, Ohio	5-27
6-21	Levee, Memphis, Tenn.	6- 3
6-21	Landing platform, New York	6-10
6-21	Ditch, Webster City, Iowa	6-17
6-21	Stone, New Orleans, La.	6-17
6-21	Steamboat repairs, New York	6-17
6-22	Painting ferry boats, New York.	6-17
6-22	River improvements, Lorain, Ohio	6-10
6-22	Ferry steamer, Wash., D. C.	6- 3
6-22	Retaining walls, New York	5-27
6-22*	Barge Canal, Albany, N. Y.	5-27
6-23	Supplies, Kansas City, Mo.	6-17
6-24*	Dredging, New York	5-27
6-24	Iron railings, New York	6-17
6-25	Pier, New York	6-17
6-25*	Seawall, New York	5-27
6-26*	Steel bars, cement..Porto Rico.	6- 3
6-28*	Dredging, Port Chester, N. Y.	5-27
6-28*	Causeway, Galveston, Tex.	5- 6
6-28	Dredging, Wheeling, W. Va.	6-10
6-28	Lighthouse, Tompkinsville, N. Y.	6-17
6-29*	Dredging, Newport, R. I.	6- 3
6-29*	Supplies, Panama	5-27
7- 1*	Valves, etc., Panama	6- 3
7- 1	Metal lockers, Chicago, Ill.	6-10
7- 2	Dredging, Washington, D. C.	6-10
7-3*	Barge canal, Albany, N. Y.	6-17
7- 6	Drain, Des Moines, Iowa	6-17
7- 8	Dredging, Wilmington, Del.	6-17
7- 9	Drilling machines, Transvaal (Foreign)	5-27
7-10	Air compressors, Washington, D. C.	6-17
7-15*	Dredging, Buffalo, N. Y.	6-17

EXAMINATIONS.

6-19	Statistician and leveler, Albany, N. Y.	6-10
6-21	Civil engineer, etc., Washington, D. C.	6-10
6-26	Inspector, Albany, N. Y.	6-10
6-26	Supt. construction, Albany, N.Y.	6-10
6-29*	Asst. Engr., New York	6-17
6-30	Timber cruiser, Washington, D. C.	6-10

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ARIZONA & SWANSEA. — Company has been incorporated in Arizona, with $500,000 capital, to build from a point near Bouse, Ariz., to the new mining camp of Swansea, where the Clara Consolidated Mining Co.'s property is being developed. The incorporators include G. Mitchell, T. J. Carrigan and E. D. Olsen, of Los Angeles, Cal.; R. E. Morrison and A. Hill, of Prescott, Ariz.

ATCHISON, TOPEKA & SANTA FE.—The contract for the construction of the Santa Fe extension from Clovis, N. Mex., to Coleman, Tex., has been let to the C. H. SHARP CONSTRUCTION CO., of Kansas City, Mo. The road will be 176 miles long.

BOSTON & ALBANY.—The following improvements in New York State are contemplated by this company, as shown in its application to the Public Service Commission, Second District, Albany, N. Y., for the approval of bond issue; replacement of present signal system from state line to Chatham, N. Y., with three positions, upper quadrant, automatic semaphore signals, $12,150; new signals from state line to East Chatham, and from Niverville to Rensselaer, $20,000; remodeling interlocking plant from state line to Chatham, $20,000; remodeling interlocking plant, East Chatham, $2,000; train order signals on Hudson branch, $1,500; telephone dispatching, $5,000. E. E. Stone is Ch. Engr., Boston, Mass.

CANADIAN NORTHERN.—William Mackenzie, Pres., is reported to have stated that during 1909, the company will build 1,500 miles of line in Alberta and Saskatchewan; 600 in Ontario, and 200 in Manitoba. M. H. McLeod, Winnipeg, Man., is Gen. Mgr.

CANADIAN PACIFIC.—JOHN BRADLEY, Brandon, Man., has the contract for the Regina-Bulyea branch in Saskatchewan, and is now preparing to start active construction.

CHARLESTON & NORTHEASTERN.—Chartered in West Virginia to build a line from Charleston to Parkersburg, W. Va. Capital, $5,000. The incorporators are W. D. Payne, J. F. Bouchelle, J. M. Payne, John L. Dickinson, and C. A. McCoy, all of Charleston, W. Va.

CRYSTAL CITY & UVALDE.—This company will build a line 43 miles long between the two points named and connecting at Uvalde, Tex., with the Southern Pacific Ry. A. R. Ponder is Pres., and Gen. Mgr., at Uvalde, Tex.

EAST RIVER TERMINAL R. R.—The Public Service Commission, New York, has granted permission to the East River Terminal R. R. Co. to begin the construction of its proposed freight terminal along the East River, between North Third St. and North Fourth St., Brooklyn. At the same time the company received permission to cross at grade the tracks of the Brooklyn Heights Railroad Co. and the Brooklyn Rapid Transit Co. in Kent Ave., and to cross at grade Wythe Ave. and Kent Ave. and North Fourth St.; on condition that the entire expense of such crossing is defrayed by the company. The East River Terminal R. R. Co. received a franchise from the Board of Estimate and Apportionment, New York City, on March 15, and it is understood that construction work will be begun at once. When completed, the new terminal will be one of the largest freight yards in the world.

GREENVILLE & KNOXVILLE.—An extension is proposed from Cleveland, S. C., to River Falls, S. C., four miles. Surveys are made. W. N. Patterson, Atlanta, Ga., is Pres.

GULF & NORTHWESTERN.—The company, recently chartered in Kansas, with $1,500,000 capital, proposes to build two lines in Western Kansas. One line will start near Haigler, Neb., and run through Cheyenne, Sherman, Wallace, Greeley, Hamilton, Stanton, Grant, Morton and Stevens Counties. Its northern terminus will be at some point on the C., B. & Q. R. R., in Western Nebraska, and its southern terminus will be Pueblo, Colo. It will run 200 miles in Kansas. The other line runs from a point on the first named line in Cheyenne County, through Sherman, Logan, Wichita, Scott, Finney, Grant, Kearny, Haskell, Seward, Gray, Meade and Clarke Counties, terminating at Englewood on the Santa Fe. It will be about 250 miles long. John E. Hessin of Manhattan, Kan., is attorney for the new company. The incorporators are: J. B. Dyatt, John A. Keeran and J. F. Kimmel, Goodland, Kan.; C. C. Evans, Colby, Kan.; J. W. Tibbles, Dresden, Kan.; James A. Sprague, Selden, Kan.; and R. B. Ketchum, Canon City, Colo. Headquarters, Goodland, Kan.

HIXON, SUMTER & NORTHWESTERN.—Incorporated with $15,000 capital, to build a 40-mile railway line from Hixon, Ala., on the Alabama Great Southern R. R., northwest to the Mississippi boundary, about 1½ miles south of Sucarnochee Creek. The incorporators are John Alexander, George C. Hixon, J. M. Hixon, T. E. Brittingham, and F. J. Hughes, Sumter, Ala.

HUDSON BAY & PACIFIC.—Plans will be filed with the Department of Railways, Ottawa, Canada, on June 19, of the proposed route of this railway. The company has charters for two lines. The first runs directly due west from Churchill through Arthabaska Lake to the Pacific Ocean, via the Yellow Head Pass. The second line runs from Churchill in a southerly direction to the northeast corner of Lake Winnipeg. The line follows the north bank of the river to The Pass and to Prince Albert. Noted on March 25.

KANSAS NORTHWESTERN.—This railway, when built, will extend from Wichita, Kan., northwest via Hutchinson, Great Bend, Hayes, Hill City, Oberlin and Atwood to Benkelman, Neb., about 325 miles. Contracts for grading, tracklaying and bridges will be let in August or September. There will be two or three steel bridges over the Arkansas, Smoky and Saline Rivers. W. R. Crumpton is Ch. Engr., at Great Bend, Kan.

LAKE ARTHUR, JENNINGS & NORTHERN.—Survey will be made for this railway, which will be built from Lake Arthur, La., to Jennings, La., and to a point on the Colorado Southern, New Orleans & Pacific R. R. W. B. Conover, of Lake Arthur, is Pres.; E. P. Fox, of Lake Arthur, is Gen. Mgr. J. F. Hervery is Engr.

LAURINBURG & SOUTHERN.—Company will build a railway from Laurinburg, N. C., to Johns Station. Surveys are made and right-of-way secured. John F. McNair is Pres., and Baxter Morrison, Engr.-in-Charge, Laurinburg.

MARSHALL & EAST TEXAS.—At a recent meeting of stockholders and directors of the Marshall & East Texas R. R. Co., held at Marshall, Tex., plans were formulated for building the line from Marshall to Newton, Tex., a distance of about 125 miles. The capital stock of the company was increased from $75,000 to $200,000, all the additional amount being subscribed, it is stated. J. E. Votaw is Gen. Supt., Marshall, Tex.

MONTANA, IDAHO & PACIFIC.—This company has been incorporated in Montana by J. H. Richards of Boise, C. E. Chrisman, of Boise, Idaho, and James G. Wilson, of Portland, Ore. Company has an authorized capital stock of $16,000,000, for which a filing fee of $1,800 was paid by J. L. Wines of Butte, who is named as its state agent. The road will run from Lapwai Junction, Idaho, where it connects with the Oregon Railway & Navigation Co.'s lines, along the Clearwater River crossing into Montana by way of Lolo Pass, thence through Missoula, Granite, Powell and Deer Lodge Counties to Butte. It will have a total length of 350 miles.

PACIFIC & OREGON SOUTHERN.—A railway will be constructed by a company, under this title, from Central Point or Medford, Jackson County, Ore., west to near Wilderville, thence southwest to Selma, along the Illinois River valley, to a point near Deering, continuing southwest through the Chetco River valley and Mill creek flats to Crescent City, Cal., about 102 miles. Elias Ruud, Ch. Engr., Portland, Ore. The Central Point Commercial Club is interested in the project.

PENNSYLVANIA ANTHRACITE RY.—Charter has been secured in Arkansas with authorized capital of $25,000 to build a line four miles long to connect coal mines with the Iron Mountain Division of the Missouri Pacific. The incorporators are James K. Garhart, W. H. Garhart, Leonard G. Van Nostrand, Fremont Stokes, C. H. Lankford, Edwin C. Sargeant and W. H. Lankford, of Clarksville, Ark.

TEXAS.—A company to be known as the Provident Railway Right of Way Co., capital, $5,000, has been chartered to build a railroad from Glen Floro, Tex., on the Santa Fe, 23 miles, or from El Campo, on the Southern Pacific, about the same distance.

The stockholders include Carey Shaw, of Houston; Friench Simpson and Levi Paul, of Hallettsville, Tex.; and Frank Hardy, of El Campo, Tex. Also E. J. Coughlin, of Topeka, Kan.; Lewis H. Scurlock, of Kansas City, Mo., and Emil Reinbold, of Vienna, Austria. Provident City is a new townsite.

ELECTRIC RAILWAYS.

HARTFORD, CONN.—Action was taken last week as follows by the Legislature on several trolley charter propositions. In the House the charter of the Danbury & Bethel Street Railway Co. was amended in regard to extensions desired by the company, and the New London & East Lyme Street Railway Co.'s charter was amended so as to permit this company to build westerly from Niantic through East Lyme and Old Lyme to the Connecticut River.

In the Senate the charter of the Meriden, Middletown & Guilford Co., which has not yet been built, was extended for two years, from July 1, instead of to Nov. 1, 1910, as has been the rule of the joint Committee on Railroads this session; the Shore Line Electric Railway Co., which is now building a line along the Sound shore, had its charter amended so as to permit it to build over the north route from Guilford to New Haven and from Guilford to Stony Creek, to connect with the Connecticut Co.'s line; and the Litchfield County Co., a combination of two trolley companies, with rights to build from Torrington to Litchfield and Bantam Lake, and south to Watertown to meet the Connecticut Co. there, was incorporated. These are all independent trolley lines.

NEW YORK, N. Y.—The franchise recently granted by the Board of Estimate and Apportionment to the South Shore Traction Co. to build a trolley line through Queens and over the new Queensboro Bridge has been disapproved by the Public Service Commission. The commission's chief objection lies in the fact that under the terms of the franchise the South Shore Traction Co. receives practically monopolistic control of Thompson Ave. and Hoffman Boulevard. While the franchise is not an exclusive one on its face, it forbids during the 50-year period of the grant any use of these streets by any other street railroad company, except under what the commission calls "extraordinary conditions." The route granted by the franchise covers a distance of 13 miles in Queens Borough and 1½ miles on the Queensborough Bridge. It extends from the city line at Nassau County through Jamaica to Long Island City, traversing the heart of Queens Borough and running principally in Hoffman Boulevard and Thompson Ave. Noted on May 13.

The South Shore Traction Co. has again made application to the town board of Brookhaven, Long Island, for a franchise to build and operate a trolley line between this village and Ronkonkoma, and a hearing will be held at Ronkonkoma on June 23. This makes the third time that the South Shore Co. has made application for this franchise, the town board voting on two previous occasions not to grant it. The route applied for, as described in the application, would start at a point in the village of Ronkonkoma and pass through the villages of Smithtown, St. James, Stony Brook and Setauket to Port Jefferson.

NEW CITY, N. Y.—The Public Service Commission has authorized the Rockland Railroad Co. to construct and operate its line in Rockland County, and to exercise franchises in the villages of Piermont, Grand-View-on-Hudson, Nyack, South Nyack, Haverstraw, West Haverstraw, Spring Valley, and Suffern, and in the towns of Clarkstown, Stony Point, Orangetown, and Ramapo. A franchise has also been received from the County Board of Supervisors. The permission given will enable the company to construct trolley lines throughout the greater part of Rockland County. There are no trolley lines in that county at present.

BROOKLYN, N. Y.—The South Flatbush Railroad Co. has applied to the Public Service Commission for permission to issue $30,000 of stock and for a certificate of public convenience and necessity. The company, of which John C. Langan is Pres., was incorporated in January to build an electric street railroad line three miles long in the Flatbush section of Brooklyn. The application to the commission states that the estimated cost of construction of the line is $30,000, and the company intends to issue its stock at par for cash and use the proceeds to build the road. No securities have as yet been issued. The directors of the company are as follows: Joseph J. Baughman, of New Cumberland, Pa.; John E. Bastress, of Mount Carmel, Pa.; Benson H. Pierce and Ernest M. Hungerford, of Brooklyn; Lewis S. Sadler, of Carlisle, Pa.; H. B. Vreeland, John C. Langan and Frank M. Brown, of Brooklyn; Adam A. Barr, Mt. Carmel, Pa.

PITTSBURG, PA.—The West Penn Railways Co. has decided to build an extension of the line in the southwestern part of Westmoreland County, from the present terminus of the line at Buena Vista, to West Newton. The line will pass through Herminie and Madison, and will be approximately twelve miles in length. J. L. Fritsch is Ch. Engr., Connellsville, Pa.

The Pittsburg Railways Co. has asked the Washington County commissioners for permission to extend the line from Monongahela to Donora, Pa., building the proposed extension along the country road between these places. At Donora, the line would then connect with the proposed line of the Donora & Eldora St. Ry. Co. F. Uhlenhaut, Jr., is Ch. Engr., 435 Sixth Ave., Pittsburg.

CARLISLE, PA.—The Cumberland Ry. Co. has been granted a franchise to construct an electric railway from Middlesex to Newville, via Carlisle, and along the line of the State Road westward from Carlisle. W. E. Glatfelter, Balfour, is Pres.

JOHNSTOWN, PA.—Application will be made on June 18 by the Johnstown & Gallitzin Ry. Co. for a charter to build an electric railway between Johnstown and Gallitzin. Applicants for the charter are: Wallace Sherbine, Thos. J. Pearce, Alvin Sherbine and H. W. Storey, of Johnstown.

FITZGERALD, GA.—We are officially advised that date is indefinite for letting contracts for building the proposed electric railway for the Fitzgerald & Ocilla Elec. Ry. & Power Co. between Fitzgerald and Ocilla, 15 miles. As previously noted, a power station will be built on Lake Beatrice between Fitzgerald and Ocilla. The repair shops will be erected near the power plant. Power will be supplied for lighting. Capital stock, authorized, $100,000, of which about two-thirds has already been issued. Bonds authorized, $250,000. Headquarters will be at Fitzgerald. New York office is at 61 Fifth Ave. S. Tilden Holtzendorf, New York, is Pres.; Judge D. B. Joy, Fitzgerald, Vice-Pres.; C. A. Holtzendorf, Fitzgerald, Secy.-Treas. and Gen. Mgr. The General Contracting & Engineering Co., 50 Church St., New York, has charge of engineering work.

MOBILE, ALA.—H. S. Green, Harry Pillans and W. D. Randall are interested in plan to build an electric railway from Jackson Oak to Stone's Springs, on the eastern shore of Mobile Bay. P. A. Parker has made a preliminary survey.

NASHVILLE, TENN.—It is announced that the Nashville Railway & Light Co. has filed an application to amend its charter so as to permit it to make a number of extensions and improvements in and around Nashville. It is proposed to construct lines to connect Goodlettsville, Nolensville, Paradise Ridge, Una, Belle Meade, Old Soldiers' Home, Masonic Widows and Orphans' Home, Franklin, Bordeaux and other places. Percy Warner is Pres. and Mgr.

NEWCASTLE, IND.—The Union Trust Co., receiver for the Indianapolis, Newcastle & Toledo Ry. Co., will receive bids until June 24 for the completion of the road between Indianapolis and Newcastle, 38 miles. The receiver will prepare specifications for the bidders immediately. Noted on April 22 and May 20.

GALESBURG, ILL.—The Galesburg & Rock Island Traction Co. has made survey for portions of its proposed line and construction will begin soon. The right-of-way between Galesburg and Rock Island has been mostly secured. The estimated cost of the railway is $2,000,000. The capital stock of the company is to be increased to $1,500,000. Cars will be operated into Rock Island from Milan over the tracks of the Tri-City Railway. The permanent survey of the line is direct from Galesburg to Alexis; from Alexis to Preemption; from Preemption to Milan, and thence to Rock Island. The Empire Trust Co., New York City, is trustee of the bonds and mortgages of the railway.

CHICAGO, ILL.—Bids were received on May 27 by the Chicago Railways Co. for reconstruction of the Washington St. tunnel, between Clinton St. and Canal St. Contract was awarded to the GEO. W. JACKSON CO., The Rookery, Chicago, at $81,874. Noted on May 20.

MILWAUKEE, WIS.—The Milwaukee & Western Electric Ry. has awarded the construction contract to the CHAPMAN CONSTRUCTION CO., of Chicago. The main line will be from Milwaukee to Beaver Dam, 55 miles, with a 10-mile branch from Sussex to Waukesha. Valentine Zimmerman is Pres.; J. W. Barber, Secy.; W. E. Elliott, Gen. Mgr.

MOBERLY, MO.—The City Council has granted to Manning, Wellman & Co. a franchise to build an electric railway between Moberly and Huntsville.

ROGERS, ARK.—Franchises have been secured by the Rogers, Pea Ridge & Northern Interurban Railway Co. which has completed the preliminary survey for its proposed 20-mile electric railway. Construction work will be under way soon. It will connect Rogers and Pea Ridge, 10 miles north, also Diamond and Electric Springs. A power plant and a repair shop may be erected at Rogers. A. R. Potter, Rogers, is Pres.; J. F. Walker, Rogers, First Vice-Pres.; W. T. Patterson, Pea Ridge, Second Vice-Pres.; Bryan Snyder, Rogers, Secy.; J. J. Putnam, Pea Ridge, Treas.

TEMPLE, TEX.—The Central Texas Development Co. has been organized to make preliminary surveys, secure rights-of-way and franchises for the proposed electric railway between Temple and Waco. Chas M. Campbell is chairman; G. E. Wilcox, Temple, Pres.; W. J. Neale, Waco, Vice-Pres.; W. L. Prather, Waco, Secy.; P. L. Downs, Temple, Treas.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

LEWISTON, ME.—Press reports state that the Union Water Power Co. has taken over the control of all the water privileges on the Androscoggin River between "Crazy Island" so called (a mile below the Babbitt & Googin dam) and the Turner Centre bridge, a distance of six miles of the flow of the river—the flowage therefrom reaching exactly to the level of the river above the slight fall at Turner Centre bridge. This power will be developed by a concrete dam or dams, and will be transformed thereat into electricity at a large power station and turned into Lewiston for the use of the mills of Lewiston in manufacturing purposes and to supply power for a new cotton mill to be built as soon as it is deemed feasible at Lewiston. The amount of this power is conservatively estimated by Walter H. Sawyer of the Union Water Power Co. to be 10,000 HP. In other words, this development will practically double the present capacity of the cotton mill industry in Lewiston. The privileges secured by the Union Water Power Co. from the International Paper Co. include the Babbitt & Googin dam, and the Clarke's Rips privilege. The approximate distance from Lewiston of the Babbitt & Googin dam is five miles. The distance of Clarke's Rips is seven miles, and the distance of the Turner Centre Bridge, the uppermost limit of the flowage from these privileges is about eleven miles, so that the fall of the river for the entire distance between five miles from Lewiston and eleven miles from Lewiston will be developed and turned into manufacturing cotton goods in this city. The International Paper Co. retains its power privileges at North Turner. It is said that its present intention is to develop this power at the proper time and turn it into Livermore Falls.

WENDELL, MASS.—The Athol Gas & Electric Co., of Athol, Mass., is completing plans for a power station to be erected in Wendell, and it is expected to secure power from that source in a few months. To meet the new conditions, a concrete dam will be built about 150 ft. from the present power-house at Wendell, that will have about three times the storage capacity of the present dam. On top of this, on the Wendell side, a concrete power-house will be erected, and a pole line will be built from there to Athol, and also to Erving, where it is expected light will be furnished for both house and street lighting. All the improvements will be of substantial character. Orange also will secure its lighting and power from the same source, as well as the Athol & Orange St. Ry. The Athol power plant will be maintained until the changes are made at Wendell, when it will be discontinued, and only the steam-power maintained to use in case of emergency.

BOSTON, MASS.—Bids were received as follows by Lieut.-Col. Edward Burr, Corps Engrs., U. S. A., on June 14, for electrical cable: The Simplex Electrical Co., Boston, $6,397; General Electric Co., Schenectady, N. Y., $6,128; Standard Underground Cable Co., 10 Post-office Sq., Boston, $5,937.

BOSTON, MASS.—Bids are asked until 11 a. m., July 10, instead of June 26 as formerly noted, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Washington, D. C., for installing piping in the central power plant, Navy Yard, Boston. Specifications are on file at the office of Engineering News, New York.

MIDDLETOWN, CONN.—The Middletown Electric Light Co. will extend its line to Durham, a distance of about six miles. L. Whitney is Mgr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 10, instead of June 26, as formerly noted, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishnig one 1,000 and two 1,500-KW. turbo-alternators for the Navy Yards at New York, Boston and Philadelphia. Specifications are on file at the office of Engineering News, New York.

NEW YORK, N. Y.—Bids were received by Bird S. Coler, Pres. Boro. of Brooklyn, on June 9 as follows for furnishing all the labor and materials required for pumping engine and power plant for operating Gowanus Canal tunnel: Henry E. Fox, 61 West 125th St., New York, $29,000; Allis & Chalmers Co., 71 Broadway, New York, $40,817; E. C. Moore, $48,888.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., June 28, by Robt. W. Hebberd, Commissioner of Public Charities, for furnishing and delivering two 250-HP. internal furnace boilers for power-house, Metropolitan Hospital, Blackwells Island, the City of New York.

Bids are asked until 11 a. m., June 28, by C. B. J. Snyder, Supt. School Buildings, Department of Education, for installing electric equipment in Girls' High School, on the easterly side of Nostrand Ave., between Halsey and Macon Sts., Boro. of Brooklyn; for repairs, alterations and additions to the electric equipment in Public Schools Nos. 4, 27 and 36, Borough of the Bronx.

SOUTH EDWARDS, N. Y.—Vasco P. Abbott, of Gouverneur, N. Y., is interested in the development of water power at South Edwards, on east branch of Oswegatchie River, 15 miles from Gouverneur.

SYRACUSE, N. Y.—The State Public Service Commission, Second District, has granted permission to the Oswego County Light & Power Co. to construct a water power plant at Salmon River Falls and to transmit electricity to Syracuse and other places in Central New York. Charles A. Lux and William P. Gannon, of Syracuse, are interested.

MIDDLETOWN, N. Y.—The bids received by the State Lunacy Commission on June 9, for the construction of an outside lighting system at the Middletown State Hospital, Middletown, N. Y., were: Frost & Sheldon, Albany, $2,378; John Kelly, Schenectady, $1,992; Enterprise Electrical Co., Middletown, N. Y., $2,223; Troy Electrical Co., Troy, N. Y., $2,195; New York Construction Co., New York, $1,945; Edward Joy, Syracuse, N. Y., $3,945; Commercial Construction Co., New York, $2,163; W. H. Chapman, New York, $2,238. T. E. McGarr is Secy.; F. B. Ware is State Arch., both at Albany.

JERSEY CITY, N. J.—Bids will be received until June 23 by the County Building Committee for furnishing and installing electric lighting fixtures for the new County Court House. Hugh Roberts, 1 Exchange Pl., is Arch.; Alexander J. Clements is Secy. Com.

MEADVILLE, PA.—Frederick J. Kebort has awarded the contract for the erection and equipment of a power plant for his building on Chestnut St. to DANIEL G. FOWLER, of this city. The building will be one story in height, and will be of concrete blocks. It will house a plant of sufficient capacity to furnish light for the entire city block in which the business building is located.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., July 10, instead of June 26, as formerly noted, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, for furnishing motor generator sets, exciters, switchboard, etc., at the U. S. Navy Yard, Philadelphia. Specifications are on file at the office of Engineering News, New York.

ATLANTA, GA.—The Piedmont Power Co. is preparing plans for the proposed electric distribution lines and will commence construction work as soon as details are completed. Capital, $3,000,000. Louis B. Magid is Pres., English-American Bldg.

RICHWOOD, OHIO.—Bids will be received until June 19 by Ray L. Jordan, Village Clerk, for lighting the streets with 35 or more arc lamps of not less than 300 c.p. for a period of ten years.

CHICAGO, ILL.—The Rudolph S. Blome Co., 79 Dearborn St., is completing the concrete foundations for the gas holders for the Peoples Gas Light & Coke Co. at South Chicago.

KENOSHA, WIS.—The officials of the Kenosha Electric Railway Co. have decided on the immediate erection of a power plant to furnish power for the various industries of the company in Kenosha and the general manager has announced that a site for the plant has been secured and that the plans were now being considered by the officials of the company with a view of starting work on the erection of the plant. W. A. Russell, Kenosha, is Supt.

HOT SPRINGS, ARK.—The Garland Power & Development Co., with offices at Hot Springs, has filed articles of incorporation with the Secretary of State. The capital stock is $1,500,000. The company has been formed for the purpose of building a dam across the Ouichita River in order to generate water power to be supplied to Pulaski, Saline, Garland and Hot Springs counties.

SEARCY, ARK.—Louis Lorch, Pres. Searchlight Power & Electric Co., will receive bids about Oct. 15 for the construction of its proposed power plant, etc. Total cost, including buildings and construction, with equipment, $250,000 to $300,000.

MURFREESBORO, ARK.—The Pike County Water Power Co., Murfreesboro, Ark., is planning to construct a plant to transmit more than 20,000 HP. by electricity.

DENVER, COLO.—Press reports state that the Colorado Power Co. will expend $3,000,000 in improvement to double the capacity of the plant to furnish power for factories, etc., during the summer.

BOULDER, COLO.—ARTHUR S. BENT, Citizens' National Bank Bldg., Los Angeles, Cal., has been awarded the contract for the construction of twelve miles of 3-ft. diameter concrete pipe for the Eastern Colorado Power Co. The line is to be built along the walls of Boulder Canyon, Colo., at an altitude of 8,000 ft. All the pipe will be made at the bottom in 2-ft. sections and hoisted into place by an aerial cable. Three crushing and mixing plants will be operated and 200 men employed continuously to complete the work within four months. Cost, $100,000. J. W. E. Taylor is Supt.; S. M. L. McSpadden is Purchasing Agt., both at Colorado Springs, Colo.

NORTH YAKIMA, WASH.—It is proposed to construct a 10,000-HP. hydro-electric plant on west side of Yakima River in Moxie Valley. The canal will be ten miles in length. Cost, about $750,000. A. N. Mougin, North Yakima, is interested.

BREMERTON, WASH.—Bids are asked until 11 a. m., July 10, instead of June 26, as formerly noted, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing piping, pumps, condensers, heaters, etc., in the central power plant, Navy Yard, Puget Sound, Wash. Specifications are on file at the office of Engineering News, New York.

VALLEJO, CAL.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., July 10, instead of June 26, as formerly noted, for furnishing and installing eight boilers with oil burners, flues, superheaters, and stack at Navy Yards, Puget Sound, Wash., and Mare Island, Cal.

MONTEREY, CAL.—We are officially advised that the Monterey County Gas & Electric Co. has installed a gas plant, and will put in two new boilers and build a transmission power line to Salinas. The total expenditure for these three improvements will be $70,000. W. H. P. Hill is Gen. Mgr., Monterey.

BATTLE MOUNTAIN, NEV.—A corporation to be known as the Lander County Power & Light Co. has been formed for the purpose of erecting at Battle Mountain a light and power plant, the chief object being to supply power for the Golconda Consolidated Mining Co., which has announced its intention of putting in a concentrating plant at Galena. The company has general corporate power to install plants for custom use, and proposes to furnish power anywhere within a radius of 20 miles of Battle Mountain. F. L. Labadie is Pres.

SALT LAKE CITY, UTAH.—The erection of a heating and power plant, sufficiently large to take care of the building of the Temple Block and a number of the large buildings in the vicinity, including the Utah Hotel, which is to be erected on the old Deseret News corner, is contemplated by Bishop C. W. Nibley and others. It is proposed to build the plant on the property where Silver Bros.' foundry once stood, in the center of the block west of West Temple St. The initial move has been made in the matter of the construction of a conduit of reinforced concrete for pipes and wires from the Temple block across West Temple St.

PROVO, UTAH.—Jesse Knight, of Provo, has accepted plans for a system of electrical power plants for furnishing light, power, and heat to towns on a belt of about 200 miles throughout southern Utah. The district through which the power will be carried runs from Logan on the north to Nephi on the south, a belt 200 miles long and 100 miles wide through the most thickly populated portion of the state. One plant is under way on the Snake Creek, and two other plants are being designed, one in Santaquin Canyon, and one on the Weber River, this state.

MOSCOW, IDAHO.—The Moscow Gas Co. has been organized here with a capital stock of $25,000. The company will proceed at once with the erection of its plant.

MACKAY, IDAHO.—The Mackay Light & Power Co. has been formed as a corporation with a capital stock of $25,000. J. H. Greene, J. D. Daniels, J. C. Davidson, and Henry Piers are the directors. The company will erect a power and light plant, and has filed on sufficient water on Big Lost River to generate 400 or 500 HP. Surveys for ditches, power-house, etc., have been made. Two members of the company have received a franchise from the city for the construction of an electric street railway line here.

SASKATOON, SASK.—Bids will be received until June 22 by J. H. Truesdale, City Clerk, for one 500-KW., 220-volt, 60-cycle, 150-r. p. m., 2-phase generator, exciter and switchboard installed complete, and a 750-HP., 150-r. p. m., vertical Corliss engine, with necessary condensing apparatus, installed complete.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

BIDDEFORD, ME.—Bids will soon be asked by the Committee on Streets for the construction of the Bradley St. bridge. Bids will be received on iron, steel, wood, concrete or stone. Albert O. Marcille is City Clk.

BOSTON, MASS.—Bids were opened on June 1 at the office of William Jackson, City Engr., for rebuilding the Huntington Ave., bridge over the tracks of the Boston & Albany R. R. The BOSTON BRIDGE WORKS, INC., 47 Winter St., Boston, secured the contract at $46,120. H. P. Converse & Co., of Boston, bid for the work, $50,366.

ANSONIA, CONN.—The Board of Public Works has decided, it is reported, to expend about $6,000 for repairs, including a wooden block pavement on the Maple St. Bridge.

BUFFALO, N. Y.—The Fort Erie & Buffalo Bridge, Co., which has been chartered by the Dominion Parliament with a capital of $1,000,000, to build a steel bridge across the Niagara River from Fort Erie to Buffalo for the passage of steam and electric cars, vehicles and foot passengers, is having surveys made and soundings taken by Gigne & Jennings, Engrs., Toronto. Daniel Hyman, Fourth and Virginia Sts., Buffalo, is one of the provisional directors.

BUFFALO, N. Y.—Bids will be received until June 21 by the Department of Public Works, F. G. Ward, Comr., for constructing a reinforced-concrete highway bridge on Northland Ave. at Seajaquada Creek.

*READING, PA.—Bids will be received at the office of A. L. Rhoads, County Controller, until 10 a. m., July 1, for the construction of a reinforced concrete arch bridge in Colebrookdale Township, Berks County, over Ironstone Creek, near Gabelsville. Length of arch, 50 ft.

SEWICKLEY, PA.—The County Engineer of Allegheny County, we are officially advised, has prepared plans and specifications for a highway bridge of the cantilever type across the Ohio River at Sewickley, 12.5 miles below Pittsburg. The structure will consist of six approach spans, two anchor and cantilever arms and one suspended span, bridge being symmetrical between the anchorages. The south approach will consist of two end spans, each 75 ft. 1⅝ ins. c. to c. end bearings, and one center span 118 ft. 8¼ ins. c. to c. end bearings, the latter span crossing the tracks of the Pittsburg & Lake Erie R. R. The north approach will consist of three like spans, each 75 ft. 1⅝ ins. c. to c. end bearings, the extreme end span crossing Chadwick St. in Sewickley Borough. The anchor arms will be 300 ft. in length, the cantilever arms will be 200 ft. in length, carrying a suspended span 350 ft. in length, giving a distance of 750 ft. c. to c. of channel piers and 1,350 ft. c. to c. of anchorage piers. The distance c. to c. of end bearings of the extreme approach spans will be 1,852 ft. 7 ins. The trusses throughout the entire bridge will be spaced 32 ft. c. to c. and will carry two sidewalks on the outside. The roadway, having a clear width of 28 ft., will be of the solid floor type, consisting of wood block laid on sand and concrete, carried on buckled plates, which, in turn, are carried by the floor system of stringers and floor beams. The sidewalks will be of reinforced concrete construction, carried on stringers and brackets and will have a width of 7 ft. 9 ins. between centers of trusses and railing. The substructure will consist of two concrete abutments, eight concrete pedestals carrying four steel bents to support the approach spans, two anchorage and two channel piers composed of sandstone masonry backed with concrete. The two channel piers and the south anchorage pier will be carried down to rock, which averages about 23 ft. below low water or 32 ft. below pool full. The estimated weight of metal in the superstructure is about 9,000,000 lbs. and of materials in the substructure as follows: Concrete in foundations of channel and south anchorage pier, 4,100 cu. yds.; stone masonry backed with concrete in channel and anchorage piers, 6,300 cu. yds.; concrete in abutments, pedestals and foundations of north anchorage, 2,900 cu. yds.; filling approaches, 4,700 cu. yds.; steel reinforcement, 13,000 lbs.; brick paving, 500 sq. yds.; macadam crushed limestone, 300 tons; granolithic sidewalk on approach, 300 sq. yds. Separate proposals shall be submitted for the superstructure complete and for the estimated quantities of masonry, etc., at unit prices. Bids are asked until noon, July 1, by Allegheny County. J. G. Chalfont is County Engr.

HARRISBURG, PA.—The contract for grading the approach to the Mulberry St. bridge at Fourth and Chestnut Sts., was let by Councils on June 7 to the lowest bidder, the CENTRAL CONSTRUCTION CO., at $8,792, over $2,000 less than the maximum estimate of the City Engineer.

FRANKLIN, PA.—The NORTHWESTERN CONSTRUCTION CO. has been awarded the contract by the Commissioners of Venango County for the concrete work on the proposed new bridge across French Creek at Franklin. Twelve firms submitted bids, the lowest being $92,295. The contract for the steel work was awarded to the McCLINTIC-MARSHALL CONST. CO., of Pottstown, Pa.

BARBOURSVILLE, W. VA.—Bids are asked until noon, July 8, by F. F. McCullough, Clk. County Court, for building steel and iron superstructure for a highway bridge over the Guandotte River at Barboursville. The work consists of four steel towers approximately 15 ft.; one through span 220 ft. C. C. pins; one deck span 36 ft. long; one through span 60 ft. long; three girders span 36 ft. long. Maupin Engineering Co., are Engrs., Huntington.

GREENVILLE, S. C.—Bids are asked by Greenville and Pickens Counties until 11 a. m., June 22, for the construction of a wooden bridge over the Saluda River between the two counties known as the Carron bridge. J. P. Goodwin is Superv., Greenville, Co.

AUGUSTA, GA.—The Augusta-Aiken Boulevard Association, J. C. Lamar, Pres., will construct bridges, including one across the Horse Creek, in connection with construction of the Augusta-Aiken Boulevard. Bids will be asked.

SAVANNAH, GA.—Bids are asked until June 21, by G. Reuben Butler, Clk. County Comrs., for material and erecting a wooden bridge over Salt Creek on the Ogeechee road.

MEMPHIS, TENN.—The Memphis R. R. Terminal Co., Albert W. Biggs, Pres., has awarded contract to J. A. OMBERG, JR., of Memphis, for the construction of a concrete viaduct on South Wellington St.

NASHVILLE, TENN.—The Tennessee Metal Culvert Co., of Nashville, has secured the contract to furnish the road improvements in Madison County. The county recently issued $200,000 of bonds for road improvements, and will use a large number of culverts.

CINCINNATI, OHIO.—The KIRCHNER CONSTRUCTION CO., Eighth and Plum Sts., is stated to have secured the contract for reconstructing the Eighth St. viaduct superstructure, masonry, approaches and asphalt mastic pavement, at $34,650. Bids were opened on May 28 by the Board of Public Service.

DAYTON, OHIO.—The County Commissioners on June 4 awarded contract for constructing a concrete bridge 152 ft. long over the Bear Creek near Ellerton to the GOBLER BROS. CO., at $6,390.

CLEVELAND, OHIO.—Contracts for the construction of the bridge to span the tracks of the New York, Chicago & St. Louis R. R., at the Cornell Road crossing in the East End were let by the Board of Public Safety on June 7. The substructure was awarded to W. MACKENZIE, at $14,661. The COWING ENGINEERING CO. received contract for the superstructure.

BLUFFTON, IND.—Bids will probably be received in July for the construction of a steel bridge across the Salamonie River, in Jackson Township.

INDIANAPOLIS, IND.—The Board of Public Works has awarded contract for the construction of a concrete bridge across Pleasant Run, in Emerson Ave., to VOLPP & FRITZ, at $3,589. Bids were opened on June 7. B. H. Miller is City Engr.

KOKOMO, IND.—The County Commissioners have awarded contract for the construction of a single span reinforced concrete arch bridge at McCann St. in the city of Kokomo to the HACKEDORN CONTRACTING CO., of Indianapolis at $10,253. The span is 110 ft. and the reinforcement is to be corrugated bars. Other bidders were: E. R. Hoover, of Marion, Ind., $9,983; Smith & Drury of Richmond, $10,395; Central States Bridge Co., of Indianapolis, on National plans, $9,900; National Concrete Co., of Indianapolis, $10,975.

ROCKPORT, IND.—The Commissioners of Spencer County have let contract to the VINCENNES BRIDGE CO., of Vincennes, Ind., for the construction of 14 steel and concrete bridges.

COLUMBUS, IND.—SMITH & SOHN have been awarded contract to construct a bridge in Bartholomew County at $11,600.

CHICAGO, ILL.—Bids will be received until June 17 by John J. Hanberg, Comr. Pub. Wks., for reconstructing the River St. approach to the Rush St. bridge.

OLNEY, ILL.—L. V. CHESROUN has been awarded contract to build a bridge at Cove Ford over the Embarras River. The structure is to be 180 ft. long and will cost about $3,600.

WEBSTER CITY, IOWA.—The Board of Supervisors, awarded contract, it is reported, for constructing a steel bridge here to the CANTON BRIDGE CO., of Omaha, Neb., at $4,015.

MINNEAPOLIS, MINN.—Karl Oustad, City Bridge Engr., is reported to have completed plans for the following bridges. One at 42d Ave., North, to connect the east side at 37th Ave., N. E. Estimated cost, $130,000; one at Third Ave., South, to connect with First Ave., S. E.; estimated cost, about $400,000; at 20th Ave., South, connecting 11th Ave., S. E., estimated cost, $200,000. Plans are also being prepared for widening the Plymouth Ave. bridge at a cost of $150,000.

The Council has asked the Minneapolis & St. Louis R. R. Co., W. D. Wheeler, Ch. Engr., Minneapolis, to construct a steel bridge over its tracks at Superior Ave.

Bids are asked by the Board of County Commissioners until July 8 for the erection of an iron and steel superstructure for the highway bridge over the Guyandotte River.

TOPEKA, KAN.—All bids opened on May 28 by the Board County Commissioners for constructing a bridge over Wakarusa Creek were rejected as excessive. S. G. Zimmerman is County Clk.

DALLAS, TEX.—Jack Witt, County Engr., has prepared plans and estimates and submitted a report on the construction of a viaduct between Dallas and Oak Cliff over the Trinity River. Six plans were submitted calling for the construction of a main viaduct 4,370 ft. long, and additional viaduct 130 ft. long. Estimated cost, from $512,000 to $652,000.

WACO, TEX.—A. A. Alebury, of Houston, was awarded contracts for the construction of small bridges in this county, a total of five in all, two of which will cost about $3,000 each. Two are new bridges and the others were washed out in recent rains. They will all be iron structures. Total cost, $10,000.

BLOOMFIELD, OKLA.—The Missouri, Oklahoma & Gulf Ry. Co., E. J. Noonan, Ch. Engr., Calvin, Okla., is contemplating constructing a bridge across the Red River near Bloomfield. Estimated cost, $150,000.

SAN JOSE, CAL.—Bids are asked until 11 a. m., June 21, by the County Supervisors, Henry A. Pfister, Clk., for the construction of a concrete bridge over the Penetencia Creek on Alum Road.

LOS ANGELES, CAL.—The Board of Public Works was authorized on June 3, by the City Council to advertise for bids for the construction of the new Buena Vista St. viaduct. Bids will be opened about July 15 and the work will be started as soon as possible. There is now $105,000 in the bridge fund and this will be sufficient to start the work, but another appropriation will be necessary in the budget for next year, in order to complete the structure.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

SPRINGFIELD, MASS.—Bids are asked until noon, June 29, by the Commissioners of Hampden County for additions and alterations to the present court-house at Springfield, Mass. Drawings and specifications may be seen at the office of Kirkham & Parlett, Archs., Carr Bldg., Springfield, Mass. C. C. Spellman is Chn.

ALBANY, N. Y.—The State Commission in Lunacy has awarded to W. B. ARMSTRONG, of Albany, N. Y., the contract for renewing the steam lines to the East Building and Male Nurses' Home at the Manhattan State Hospital, for $7,379; also, the contract for the construction of dispensary and chemical laboratory; mortuary; conduits and sun rooms, women's building, including heating, plumbing and electric work at the Rochester State Hospital to HOLLER & SHEPARD, 414 Ellwanger & Barry Bldg., Rochester, N. Y., for $29,000; also the contract for the construction, including heating, plumbing and electric work, together with connecting conduit and steam lines from laundry to power-house to the A. E. STEPHENS CO., Albany and Binghamton, N. Y., for $37,998; also for the construction of dormitory building in connection with the tuberculosis pavilion at Inwood, to WHALEN & BURNS, Ogdensburgh, N. Y., for $18,938. T. E. McGarr is Secy.; F. B. Ware, State Arch.

NEW YORK, N. Y.—Plans have been completed by A. Mertin, 33 Union Sq., for two 5-story, 10-family flat and store buildings, 40 × 102 ft., for Henry Acker, builder, 1338 Prospect Ave., to be erected on the west side of Prospect Ave., near 161st St., the Bronx. Estimated cost, $100,000.

Mulliken & Moeller, Archs., 103 Park Ave., have completed plans, and will take figures at once for the 8-story fireproof dormitory and apartment hotel, 75 × 85 ft., which the Champlin Realty Co., 103 Park Ave., will erect on the south side of 113th St., 45 ft. east of Broadway, at a cost of about $225,000. H. B. Mulliken is Pres. and H. G. Pierce, Secy. of the company. No contracts have been awarded.

Plans have been filed for a church to be built for the Novitiate of the Fathers of Mercy, of which the Very Rev. Father Wucher is head, at the corner of Morningside Ave. and 114th St., and which is to be called Notre Dame Church. It is to be of pure Italian Renaissance design, from drawings by Daus & Otto, Archs., 130 Fulton St., and will be finished with marble and artificial stone trimmings, and adorned with tall Corinthian pilasters. Only the grotto and basement are to be finished at this time, at a cost of $50,000.

The City & Suburban Homes Co., 281 Fourth Ave., has had plans prepared by P. H. Ohm., 42 East 23d St., for two 6-story apartments, 106.3 × 88.4 ft., to be erected in the south side of 79th St., 329.3 ft. east of Ave. A. Total estimated cost is $160,000.

Plans have been prepared by George Pelham, Arch., 507 Fifth Ave., for the improvement of the plot, 150 × 87.3 ft., on the south side of 106th St., 225 ft. west of Amsterdam Ave., with a 6-story elevator apartment house, to cost about $250,000. The Raymore Realty Co., 150 Nassau St., is the owner.

NEW YORK, N. Y.—The 15-story fireproof cooperative apartment house, to be erected by the Five Hundred and Thirty-Five Park Ave. Co., at the northeast corner of Park Ave. and 61st St., measuring 53 × 100 ft., will be constructed by the THOMPSON-STARRETT CO., 49 Wall St. The parties interested in the company are: Howard Mansfield, of Lord, Day & Lord, 49 Wall St., Pres.; H. B. Platt, 2 Rector St., Vice-Pres.; Charles Loring Brace, 105 East 22d St., Secy. The directors are: De Bach Emmett, 18 East 20th St.; James M. Townsend, of Townsend, Avery & Butler, 7 Nassau St.; Miss Emmett and Mrs. Whitlock. Herbert A. Lucas, 5 East 42d St., is Arch. The cost will approximate $600,000.

WILLIAM J. TAYLOR, 5 East 42d St., has secured the general contract to erect a 12-story elevator apartment house at the northwest corner of Central Park West and 93d St., covering a plot of about 125 × 163 ft. The Sturtevant Realty Co., 311 Madison Ave., which H. Allen Dalley is Pres., is the owner. The estimated cost of the building is about $750,000. Albert Joseph Bodker, is Arch., 25-27 West 32d St.

It is stated that no architect has been selected to prepare plans for the proposed Harlem theater which John H. Springer, of the Grand Opera House, Eighth Ave. and 23d St., contemplates erecting at the northwest corner of Seventh Ave. and 123d St., fronting 100 ft. on Seventh Ave., and 250 ft. in the street. The site is now covered with 5-story flats. Mr. Springer announces that building operations will be started by Sept. 1, and the building completed by the first of 1910. The estimated cost is given as $600,000, and the seating capacity 2,500.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., June 28, by Nicholas J Hayes, Fire Comr., for furnishing all the labor and materials required for additions and alterations to building of Engine Company No 111, located at No. 166 Clymer St., Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 28, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for alterations and repairs to heating and ventilating apparatus of Public Schools Nos. 3, 10, 21, 33, 38, 43, 59, 60, 77, 90, 101 and 108; also at the Commercial High School, Erasmus Hall High School, Manual Training High School, Truant School and at the office and storage building of the Department of Education, Boro. of Brooklyn; for alterations, repairs, etc., at Public Schools Nos. 16, 17, 17a, 19, 19a, 22, 23, 31, 33, 34, 37, 38, 50a, 51, 59, 71, 110, 122, 126, 132, 143 and Eastern District High School, Boro. of Brooklyn; for sanitary alterations at Public Schools Nos. 31, 43, 87 and 106, Boro. of Brooklyn; for repairs to heating and ventilating apparatus of Public Schools Nos. 42, 44, 160, 174 and 177, Boro. of Manhattan.

BUFFALO, N. Y.—A. J. Hazeltine, of Warren, Pa., and William B. Lynde, 621 Ellicott Square Bldg., Buffalo, owners, will erect a 4-story and basement apartment house on Johnson Park, near Carolina St. It will have steel frame, brick and tile construction and will cost $50,000. Colson & Hudson, 35 Dunn Bldg., are Archs.

Bethune, Bethune & Fuchs, Archs., 215 Franklin St., have prepared plans for an 8-story and basement wholesale grocery warehouse, 100 × 101 ft., with steel frame, brick and concrete construction, to be erected at the corner of Scott and Columbia Sts., by W. H. Granger & Co.

Howard L. Beck, City Arch., 12 Erie County Bank Bldg., has prepared plans for a 3-story and basement school building, 86 × 128 ft., containing 16 rooms, which the city will erect at corner Seventh and Maryland Sts., of pressed brick, sandstone and terra cotta trimmings. Cost, $80,000.

Plans are being prepared by Lansing & Beierl, Archs., 371 Pearl St., for a church building of stone, to be erected at the corner of Main St. and Jewett Ave., by the Central Park Presbyterian Church Society, to cost $80,000. Thomas H. Noonan, 736 Ellicott Square Bldg., is Chn. Bldg. Com.

BUFFALO, N. Y.—Cyrus K. Porter & Sons, Archs., 73 West Eagle St., have prepared plans for a 3-story residence, 49 × 54 ft., of Medina sandstone, with structural steel and slate roof, to be erected at Linwood Ave. and Utica St., for Edward H. Hutchinson. Cost, $45,000.

The Buffalo Realty Co. will add three stories to its department store building, 136 × 200 ft., at 457-471 Main St., making it ten stories. It will have steel frame, stone and terra cotta facing. Cyrus K. Porter & Sons, Archs., 73 West Eagle St., have prepared plans.

ROME, N. Y.—The bids received on June 7 by the Board of Managers of the Rome State Custodial Asylum, Rome, N. Y., for the construction of a group of buildings to take the place of the structures destroyed by fire, were: A. E. Stephens & Co., Binghamton, N. Y., $147,000; Morris Kantrowitz, Albany, N. Y., $147,700; Peter Keeler Building Co., Albany, N. Y., $151,780; John Dyer, Jr., Albany, N. Y., $155,400; Brown & Lowe, Schenectady, N. Y., $167,840; Pius Kernan & Son, Utica, N. Y., $153,000; R. Richards & Son, Utica, N. Y., $154,000; Griffith & Pierce, Utica, N. Y., $187,981; Edward H. Owens, Rome, N. Y., $163,377. F. B. Ware, State Arch., has recommended that the contract be awarded to A. E. Stephens & Co., Binghamton.

PORTCHESTER, N. Y.—Crow, Lewis & Wickenhoefer, 160 Fifth Ave., New York, will take figures at once for a church for the Portchester Baptist congregation. Rev. Dr. Evans, 229 Willett Ave., Portchester, is Pastor. A. A. Carpenter, King St., is Chn. of the Board of Trustees and also of the Building Com. Estimated cost, $50,000.

ROCHESTER, N. Y.—We are officially advised that Foote & Headley, Archs., Cutler Bldg., have prepared preliminary sketches for a parish house for the Third Presbyterian Church adjoining its church edifice at East Ave. and Meigs St. It will have two stories and basement.

BINGHAMTON, N. Y.—The Boulevard Methodist Episcopal congregation will build a church of brick and stone at the corner of the Boulevard and Floral Ave. Plans for same have been approved by the Official Board and the Building Committee. J. Lewis Weir, Chn., has been authorized to advertise for bids.

LAKE PLACID, N. Y.—Marsh & Peter, Archs., 520 13th St., N. W., Washington, D. C., are preparing plans for rebuilding the 4 and 6-story hollow tile and reinforced concrete building for the Whiteface Inn Co., at Lake Placid, N. Y., it is stated, to cost about $250,000. The building will measure 400 × 100 ft. Harrington Mills, Hotel Grafton, Washington, D. C., and Lake Placid, is Res. Mgr.

WATERFORD, N. Y.—St. Mary's Roman Catholic Church, the Rev. A. H. Baliquette, Waterford, Pastor, will erect a church of one story stone and terra cotta, to seat about 800. E. F. Durang & Son, Archs., 1200 Chestnut St., Philadelphia, Pa., will receive figures about July 10. Estimated cost, about $100,000.

SYRACUSE, N. Y.—The George V. Fowler Realty Co. will erect a 10-story apartment building, 135 × 180 ft., at the corner of James and North Sts. It will have steel frame, fireproof construction, pressed brick and stone.

ATLANTIC CITY, N. J.—IRWIN & LEIGHTON have been awarded a contract by Frank B. Off, 115 South 16th St., Philadelphia, Pa., representing George Allen, for the erection of a 9-story steel, concrete, brick and terra cotta addition to the Hotel Strand, in Atlantic City. It will measure 140 × 80 ft., and will cost $250,000. Work will be started in August and will be finished early next year. The building will contain a dining room, exchange, reading and writing rooms, 98 chambers and 56 baths.

PHILADELPHIA, PA.—The William Steele & Sons Co., 1600 Arch St., will begin work soon on a 6-story and basement store building at 706 Market St., for the estate of William Steele and Joseph M. Steele. The building will be of brick, terra cotta and concrete, 54 ft. 1 in. × 124 ft. in dimensions and will cost about $150,000. Estimates are now being taken from subcontractors. The properties 704, 712 and 714 are also owned by the Steele estate and J. M. Steel, and the intention is to build the present structure in such a manner as to permit of additions at the locations named, when the present leases expire.

The work of clearing the site for the 18-story office building to be erected by the Girard Trust Co. on Chestnut St., adjoining its new banking house at the northwest corner of Broad and Chestnut Sts., has been begun. A permit has been obtained by James Porter from the Bureau of Building Inspection to raze the buildings 1413-15-17-19-21-23 Chestnut St., occupying a lot 120 × 95 ft., on which the building will stand. This ground will be conveyed by the Girard Trust Co. to the Chestnut Street Realty Co., a holding corporation, which will hold title to the building. The FULLER CONSTRUCTION CO., Fuller Bldg., New York, has the contract to erect the building, which will cost about $1,500,000. Furness, Evans & Co., Provident Bldg., Philadelphia, prepared the plans for the building.

PITTSBURG, PA.—The National Land Co., of this city, has awarded the contract for the erection of three large apartment buildings at Summerlea and Holden Sts., Shadyside, to McGAVERN & LYTLE, 311 Second Ave., Pittsburg. The total amount of the contract is about $120,000. The buildings will be separate and will be built of stone and brick. They will be three stories in height, and will contain modern plumbing and hot water heating systems, contracts for which have not been awarded.

CONNELLSVILLE, PA.—The Baltimore & Ohio Railroad Co. will soon start the construction of a large freight warehouse here on Water St., and extending along that thoroughfare to Main St. Plans were prepared for this improvement several years ago, but the falling off of general business caused the improvement to be indefinitely postponed. The new building will be of brick, steel and concrete and will cost $100,000.

ERIE, PA.—The HENRY SHENK CO., Lewis Block, Pittsburg, Pa., has been awarded the contract for the construction of the Masonic Temple here. The contract was awarded on the cost plus a fixed percentage basis. The plans which are being prepared by Alden & Harlow, Farmers Bank Bldg., Pittsburg, have not been completed. The building will be five stories and finished basement, and will be 82 × 115 ft. It will be built at Eighth and Peach Sts., and construction will be started as soon as the buildings on the site can be razed. The first floor will be stores, the auditorium will be two stories in height in the center of the building, occupying the second and third floors, while the lodge rooms will also occupy two floors, the fourth and fifth. There will be a total of 33 offices on the outside of the building, facing on Eighth St. The building will have a private power and heating plant, two elevators, steam heating system, and will cost without furnishings about $150,000. It will be of brick, steel, stone and terra cotta construction and fireproof. C. L. Baker, Erie, Pa., is Chn. of the Bldg. Com.

SHARON, PA.—Bids are asked until July 28 by the Masonic Building Committee, this city, for the proposed new masonic temple to be built at Pitts and Vine Sts., until July 28. The building will be three stories, and will cost $65,000.

ANNAPOLIS, MD.—The contract for the erection of the proposed Emergency Hospital at Annapolis has been awarded to D. M. ANDREW & CO., Light and Balderston Sts., Baltimore. The building will be located at Cathedral and Franklin Sts. and will cost about $40,000. It will be constructed of brick and will be 80 × 130 ft. The work of construction will commence in a few weeks.

BALTIMORE, MD.—Bids are asked until 11 a. m., June 23, by the Board of Awards of Baltimore City for erection of an addition to the Western Female High School. Edward D. Preston is Inspector of Bldgs.

A permit has been granted to the Eutaw Savings Bank to build an addition to the present banking building at the southwest corner of Eutaw and Fayette Sts., that will cost about $100,000. For the last two months contractors have been at work tearing down the dwellings in the rear of the bank and excavating for the improvements. Plans for the building were made by Baldwin & Pennington, Archs., Professional Bldg. The contract has been awarded to J. HENRY MILLER, 110 Dover St. The building will be 56 × 64 ft. and will conform in architecture with the present building on the corner. The construction will be fireproof and the interior will be elaborately decorated. The work of laying the foundations will commence in a few days.

WASHINGTON, D. C.—Bids are asked until 3 p. m., June 30, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the approach work at the Hygienic Laboratory of the Marine Hospital Service at Washington.

Bids are asked until noon, June 21, by the District Commissioners for constructing a substation and stable buildings for the Police Department, to be located at the southwest corner of Nicholas Ave. and Chicago St., Anacostia, D. C.

NEW ORLEANS, LA.—The Illinois Central R. R. Co. intends to erect a freight station in New Orleans. According to the New Orleans "States," the largest warehouses will be two for inbound freight 985 × 60 ft., and two for outward bound, 985 × 33 ft., in the territory bounded by Poydras, Lafayette, Magnolia and Liberty Sts. The outward bound is to be one and the inward two stories in height. In the square bounded by Poydras, Liberty, Basin and Lafayette Sts. there will be two inward bound warehouses two stories high, with foundations sufficiently strong to add two stories and an office at Poydras and Basin Sts. on the first floor. These warehouses will measure 550 × 60 ft. There will also be two outward-bound warehouses of one story, 550 × 33 ft. Liberty St. will be open. In the square bounded by Basin, Liberty, Lafayette and Girod Sts., there will be three 1-story produce sheds, 550 × 60, 550 × 76, and 550 × 80 ft. In the block bounded by Poydras, Perdido, Freret and Locust Sts. there will be a 1-story perishable freight shed, 300 × 195 ft. In the square bounded by Poydras, Perdido, Locust and Magnolia Sts there will be a team track for perishable freight with umbrella sheds over the track. In the square bounded by Poydras, Lafayette, Magnolia and Claiborne Sts. there will be two 1-story produce sheds, 245 × 60 and 240 × 60 ft., with a number of team tracks between. In the square bounded by Lafayette, Perilliat, Liberty and Magnolia Sts. there will be two 1-story produce sheds, 680 × 70 and 215 × 40 ft., with the necessary tracks. Hunter C. Leake is Gen. Agt.

MEMPHIS, TENN.—It is reported that plans are being formulated by the Farmers' Union to establish a warehouse in Memphis, to build and operate which, an incorporated company is to be formed with a capitalization of $1,000,000. It is the intention of the promoters to consolidate under one head all the district warehouses in Mississippi, Tennessee and part of Missouri.

PADUCAH, KY.—Bids are asked until 3 p. m., July 14, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the extension, remodeling, etc., of the U. S. post-office and court-house at Paducah.

MAYFIELD, KY.—Bids were received as follows on June 15, at the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Mayfield, Ky.: F. M. Roode & Co., Tipton, Ind., $49,600; D. J. Phipps, Newport, News, Va., $49,162; McHenry-Beatty Co., East Liverpool, Ohio, $44,370; Henry A. Bishop, Chicago, $45,375; Blue Ridge Construction Co., Asheville, N. C., $46,500, June 30, 1910.

JACKSON, KY.—Bids are asked until 7.30 p. m., June 30, by Harold H. Gibson, Arch., Box 158, Jackson, for constructing a bank building, 43 × 79 ft., two stories high, including private water supply, plumbing, hot water heating, pressed brick front, sheet metal work, prism lights, electric wiring and bank fixtures.

ASHLAND, OHIO.—We are officially advised that bids were received by the Board of Commissioners of Ashland County, at office of H. C. Westover, County Audr., on June 7, for the structural work for an addition to the Children's Home. The contract has been awarded to GAULT BROS., of Ashland. L. A. Wahl is Arch.

MARION, OHIO.—The general contract for constructing the proposed office building of the Marion Steam Shovel Co. has been let to the HALL-CRONAN CO., of Dayton. Richards, McCarty & Bulford, The Ruggery, Columbus, are Archs. The subletting of contracts will be deferred until the general contractors have made a thorough inspection of the bids. The structure is to be 150 × 150 ft. The center part will be three stories high, while the wings will consist of two stories. The new building will be fireproof in construction.

SPRINGFIELD, OHIO.—We are officially advised that bids were received by W. H. Holmes, Clerk Bd. of Education, on June 5, for the erection of a 2-story and basement fireproof brick and stone school building on S. Limestone St. Albert Pretzinger is Arch., 1128 Reibold Bldg., Dayton, Ohio. The contract has been let to the BUCKEYE CHURN CO., of Sidney, Ohio.

OBERLIN, OHIO.—H. C. King, Pres. of Oberlin College, announced that the Prudential Committee of the Board of Trustees of Oberlin College has awarded the contract for a Men's Building for Oberlin College, to cost $125,000. The contract for the erection of the building was awarded to GEORGE FEICK, of Sandusky, Ohio. It is expected that the work of construction will be begun immediately after Commencement, and that the building will be completed in time for dedication in June, 1910. The architect for the new building is J. L. Silsbee, 115 Dearborn St., Chicago, Ill. The building will be about 200 × 65 ft. and will be constructed of sandstone in keeping with the other college buildings. It will be used principally as headquarters for all the men's literary societies, Review Board, Annual Board, Y. M. C. A., as well as rooms for recreation and amusement. The third floor will have 21 sleeping rooms, accommodating from 45 to 50 men. In the basement a large dining room will be arranged with a seating capacity for about 200 men.

INDIANAPOLIS, IND.—Sites have been procured for two of the Carnegie libraries. Bids for construction will be received by the School Board as soon as plans are completed.

Bids are asked by the Board of School Commissioners until 1 p. m., July 2, for the erection of an 8-room school building at the corner of Morris and Kappes Sts. The building will be of brick and two stories high. R. P. Dagget & Co., Marion Block, are Archs.

The Trustees of the new Methodist Hospital Association are preparing to ask for bids for the erection of an extensive addition to the hospital building. Dr. W. T. Graham is Supt.

JASPER, IND.—We are officially advised that the County Council and Board of County Commissioners have selected Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., to prepare plans and specifications for the proposed Dubois County courthouse. The building will cost approximately $75,000. Bids will be called for some time during the month of August for brick building, fireproof floors, stone trimming.

CROWN POINT, IND.—Plans and specifications are being prepared by Beers & Beers, 168 Michigan Ave., Chicago, Ill., Archs., for an infirmary to be erected at Crown Point, Ind., for the Commissioners of Lake County, Ind., at an estimated cost of $50,000. The building will be three stories high, of brick and stone.

CHICAGO, ILL.—Plans are in progress for a 6-story addition to Wesley Hospital, 2449 Dearborn St., to cost $150,000. It is to be of pressed brick with cut stone trimmings and of fireproof construction. The addition will increase the capacity of the hospital one-third. George L. Harvey is Arch.

I. H. Schoen, 112 Clark St., is planning the erection of 30 2-story flat buildings on Wilson and Eastwood Aves., near Western Ave. Each flat will be 30 × 45 ft., and the total cost is estimated at about $165,000.

James H. Fay will erect a 3-story and basement apartment building at 61st St. and Vincennes Ave. It will be of brick, 86 × 125 ft., and cost about $45,000.

John W. Eckhart & Co., Carroll Ave. and Carpenter St., will erect a 1 and 2-story brick warehouse at the northeast corner of Carpenter and Fulton Sts. It will be 100 × 300 ft. and cost $40,000.

Plans for the Harper Memorial Library, to be erected on the campus of Chicago University as a monument to William Rainey Harper, are nearly completed. It is to be erected on Midway Plaisance, between Lexington and Ellis Aves. It is to be a 4-story building of Bedford stone, and will cost in the neighborhood of $700,000. The interior will be finished in marble, mosaics and hard wood. The fireplaces and lighting fixtures will be especially designed. The library equipment will be of the most modern. The funds were raised by subscription among alumni and friends of the university. Shepley, Rutan & Coolidge, Borland Block, are Archs.

Work is about to be started by PAUL F. P. MUELLER, 109 Randolph St., on the erection of a theater to be built at 379-81 North Ave., from plans by E. A. Seipp, Arch., 172 Washington St. The building will be one story high, measuring 60 × 130 ft. It will be built of brick stone, and iron, with steam heat, electric light and the latest appliances. Cost, $50,000.

An apartment house will be erected at Princeton Ave. and 73d St., for Mrs. L. C. Cherry, from designs by Thomas H. Mullay, Arch., 100 Jackson Boulevard. It will be a 3-story building, measuring 50 × 100 ft. It will have front of pressed brick with stone trimmings, composition roof, hardwood finish and floors, steam heat, hot water supply, electric wiring, tile and mosaic work, etc. Cost, $40,000.

Plans have been completed by J. F. and J. P. Doerr, Archs., Chamber of Commerce Bldg., for a large apartment house for Henry S. Morris. It will be located on East End Ave., near 54th St., and designs show a 3-story building, covering an area of 128 × 90 ft. It will be built of brick and stone, with composition roof, finished in hardwood, and have steam heat, electric light, and the latest improvements and appliances. Cost, $75,000.

FOND DU LAC, WIS.—The Sisters of St. Agnes have awarded contract for the construction of two wing additions to St. Agnes Convent, East Division St., to the HUTTER CONSTRUCTION CO., of Fond du Lac, Wis., at $71,226. Brick construction and stone trimmings will be used.

MILWAUKEE, WIS.—The People's Realty Co. has been incorporated with a capital stock of $15,000 to erect a $35,000 to $40,000 business block, to contain printing office, assembly halls and offices, at Sixth and Chestnut Sts. Capital will be increased as needed. Victor L. Berger is Pres.

CEDAR RAPIDS, IOWA.—We are officially advised that BARTLETT & KLING, INC., of Cedar Rapids, have been awarded contract for construction of Cedar Rapids Savings Bank Building of this city. It is to be fireproof and will cost $150,000.

WALKER, MINN.—C. H. Johnston, State Architect, Manhattan Bldg., St. Paul, is preparing plans for a 3-story pressed brick and cut stone, fireproof additional wing for the State Sanatorium for Consumptives at Walker, Minn. Bids will be invited by the State Board of Control. P. M. Ringdal, Chn., St. Paul.

ST. PAUL, MINN.—We are advised by Clarence H. Johnston, Arch., Manhattan Bldg., city, is preparing plans for a pressed brick and marble Y. W. C. A. building, to be built on Fifth St., near Washington St. It will be five stories high, 120 × 85 ft., having steam heating, electric lighting, auditorium, electric passenger elevators, etc. Cost, $300,000. Plans will be ready for figures in about 60 days.

ST. PAUL, MINN.—The Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. has awarded the contract for its pressed brick freight house at W. 7th and Neill Sts., to CHRIS ASH & CO., 202 Maria Ave., city. It will be 60 × 500 ft. Cost, $80,000.

Bids are asked by the Board of School Inspectors, C. W. Gordon, Pres., until July 12, for the construction of the pressed brick and cut stone, fireproof Mechanic Arts high school at Robert St., and Central Ave. Rankin, Kellogg & Crane, 1012 Walnut St., Philadelphia, Pa., are Archs. Cost $325,000.

FORT D. A. RUSSELL, WYO.—We have been officially informed that the following bids were received on June 10, by the Constructing Quartermaster, Cheyenne, Wyo., for constructing (a) administration building, (b) two post exchange buildings, (c) post chapel, (d) four officers' quarters, one building, (e) total: [illegible] F. Atkinson, Cheyenne, Wyo. [illegible] $54,884, (b) $39,460, (c) $51,900, (d) [illegible], (e) $179,986 (recommended for award); R. W. Bradley & Co., Cheyenne, Wyo., [illegible] $59,000, (b) $36,772, (c) $58,200, (d) [illegible], (e) $190,514; J. T. Dalton & Sons, Junction City, Kan., (a) $58,500, (b) $40,872, [illegible] $51,180, (d) $33,900, (e) $184,452; Morrison Cont. & Mfg. Co., Denver, Colo., (a) [illegible], (b) $40,300, (c) $53,000, (d) [illegible], (e) $185,480.

FAYETTEVILLE, ARK.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has awarded to J. A. DALY, of Nevada, Mo., contract for the construction of a post-office at Fayetteville, Ark., at $52,000. Time, Sept. 1, 1910.

BAKER CITY, ORE.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Baker City, Ore., to the CAMPBELL BUILDING CO., Salt Lake City, Utah, at their bid of $57,500. Time, July 1, 1910.

PORTLAND, ORE.—The Blake-McFall Co will build a 6-story and basement building at the southwest corner of Fourth and Ankney Sts. Plans of the new structure have been completed by McNaughton, Raymond & Lawrence, Archs., who will be ready to receive bids for the construction in a few days. The estimated cost of the building will be from $100,000 to $105,000 and will be completed in about six months.

•PORTLAND, ORE.—Bids are asked until noon, July 1, by Whidden & Lewis, Archs. 701 Corbet Bldg., Portland, for furnishing, fabricating and delivering at building site, all the structural iron and steel for the east wing of a new court-house to be erected for the County of Multnomah, State of Oregon. F. S. Fields is County Clerk.

BERKELEY, CAL.—We are officially informed that on June 8 the Regents of the University of California awarded the following contracts for work on the Boalt Hall of Law: Excavation and concrete to E. M. CHADBOURNE CO., of San Francisco, $21,465; furnishing structural steel to McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa.; erecting structural steel to C. A. BLUME CONSTRUCTION CO., 185 Stevenson St., San Francisco, $1,956; granite work to RAYMOND GRANITE CO., Division and Potrere Sts., San Francisco, $57,800. John Galen Howard, 604 Mission St., San Francisco, is Archt.

OAKLAND, CAL.—The Plans of the Board of Public Works for a City Hall and Hall of Justice and on which will be founded a competitive call for permanent plans are almost completed and will be submitted to the Board in a few days. The present estimate of cost of a new City Hall is given as $750,000 and $250,000 for the Hall of Justice, the former to be erected at the triangle formed by 14th St. and San Pablo Ave., the latter west of Washington St., extending through from 14th to 15th Sts.

OTTAWA, ONT.—The Grand Trunk R. R. has taken out a permit to erect a hotel here at a cost of $864,000.

DAUPHIN, MAN.—S. BROWN, Winnipeg, Man., has secured the contract for the erection of the new brick and stone school here. Cost, $41,000.

WINNIPEG, MAN.—Chisholm & Sons, Archs., are preparing plans for a building for the Independent Order of Oddfellows, to cost $50,000.

Geo. W. Northwood, Arch., Northern Bank Bldg., is preparing plans for an apartment block to be erected here for D. Kirkwood. Cost, $63,000.

McQUARRIE & McLEOD have secured the contract for the Breadalbane apartment building. Cost, $100,000. Plans were prepared by John Woodman, Merchants' Bank Bldg., Winnipeg, Man.

MOOSE JAW, SASK.—Storey & Van Egmond, Archs., of Regina, Sask., have prepared plans for a stone and brick building to be erected here for J. F. Lindsay.

ESTEVAN, SASK.—Bids will be received by L. A. Duncan, until 8 p. m., June 25, for the erection of a town-hall here. Plans and specifications may be seen here and also at the Builders' Exchange, Winnipeg, Man.

SASKATOON, SASK.—The Merrill Theatre Co., St. Louis, Mo., has purchased a site here on which to erect a $50,000 theater this summer.

EDMONTON, ALTA.—Rene Lamarchand is having plans prepared for a fully modern apartment block to be erected here at once. Estimated cost, $110,000.

Plans are being prepared by the Department of Works for a number of university buildings to be erected this year. W. H. Cushing is interested.

WATER SUPPLY—IRRIGATION.

FORT WILLIAMS (Cape Cottage post-office), ME.—W. B. BRYNE, Boston, Mass., has secured the contract at $5,600, for the extension of water and sewer lines. Capt. C. F. Humphrey, Jr., is Constructing Q. M., U. S. A., Portland.

FORT KEARNEY, R. I.—Bids in triplicate will be received by Capt. Willis C. Metcalf, Constructing Q. M., U. S. A., Newport, until 10 a. m., June 24, for repair of water supply system at Fort Kearney, including cleaning of well and repair of pumping plant.

*BETHEL, CONN.—The contract for the construction of the dam and pipe line in the borough has been awarded to F. J. BOAS, 14 S. Broad st., Philadelphia, Pa., at $28,012. Bids were opened on May 29 by the Board of Water Commissioners. List of bidders noted on June 3. Scofield & Ford are Engrs., Bridgeport, Conn.

CARTHAGE, N. Y.—The city has awarded contract for unloading and delivering all the c.-i. pipe to be used in the construction of the pipe line to RICHARD GIBBS, of West Carthage, at 75 cts. a ton.

NIAGARA FALLS, N. Y.—The following are the bids opened on May 31 by the Water Commission for the pipe to be laid from the pumping station of the new waterworks plant to the present city mains: (a) 36-in. pipe; (b) smaller pipe: The U .S. Cast Iron Pipe & Foundry Co., 208 Box St., Buffalo, (a) $33,454, (b) $57,620; Camden Iron Works, Camden, N. J., (a) $34,372, (b) $60,989; Charles Millar & Son Co., Utica, (b) $59,494.

Bids for laying the above pipe were as follows: W. A. Shepard Co., $31,349; Read-Coddington Co., $31,568; George S. Nielson, $32,922; John L. Shepard & Co., $32,487, all of Niagara Falls.

The lowest bid for the valves was submitted by the Roe-Stephens Co., of Detroit, Mich., at $3,038.

*SYRACUSE, N. Y.—Bids were opened on June 7 by the Board of Contract and Supply for steel standpipe and casing tower. The following were received: (a) For work complete, including steel tank, (b) for work complete, not including steel tank, (c) for steel tank only, with appurtenances: Clinton Beckwith, Herkimer, (c) $51,150; Merrill-Ruckgaber, New York, (a) $41,474; JAMES E. LEAMY & CO., Syracuse, (b) $23,951 (awarded contract); Guy B. Dickerson, Syracuse, (b) $28,706; REEVES BROS. CO., Alliance, Ohio, (c) $17,329 (awarded contract); Petroleum Iron Works Co., (c) $18,000; Horace E. Horton, of the Chicago Bridge & Iron Co., Chicago, Ill., (c) $19,221.

WEST CARTHAGE, N. Y.—Bids will be received by W. A. Porter, Pres. Village Trustees, until July 9, for laying approximately 3½ miles of 8 and 10-in. c.-i. water pipe, constructing head-works and standpipe foundation, included in the proposed water-works extension.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., June 23, for furnishing and delivering double nozzle standard New York hydrants and repair parts for the same.

NEW YORK, N. Y.—Bids were received as follows on June 9 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high-pressure fire-service mains and appurtenances in Allen, Broome, Bayard, Canal, Cherry, Chrystie Sts., etc., all in the district included between Houston St., Bowery, James St. and the East River: ROGERS & HAGGERTY, 75 Henry St., $1,042,992 (awarded contract); Millard Contracting Co., $1,249,946; Cunningham & Kerns, $1,236,669; Harlem Contracting Co., $1,128,468; Goodman Contracting Co., $1,335,913.

NEW YORK, N. Y.—Bids were received as follows on June 3 by the Board of Contract and Supply for Contract 20, for the construction of the Heedna siphon, a deep pressure tunnel in rock, located in the towns of New Windsor and Cornwall, Orange County. Contract was awarded on June 11 to MASON & HANGER, Richmond, Ky., at $3,492,511. List of bidders noted last week.

Contract has been awarded to the PITTSBURG CONTRACTING CO., 1942 Forbes St., Pittsburg, Pa., at $1,675,290, for Contract 45, for the construction of about 5.3 miles of plain concrete conduit, known as cut-and-cover aqueduct, 17 ft. high × 17½ wide inside, about five miles west of Newburgh in the towns of Montgomery, Newburgh and New Windsor, Orange County. Itemized prices for contracts 20 and 45 are given under Contract Prices in this issue.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., June 21, for 6-in. c.-i. water pipe for the Bureau of Water.

PITTSBURG, PA.—The sum of $400,000, it is reported, will soon be expended for new machinery and water mains for the south side. M. B. Shepherd is Supt. Water Bureau.

PUNXSUTAWNEY, PA.—The Punxsutawney Water Co. has awarded contract for the construction of a filtration plant at the Clover Run dam, twelve miles from here, to the GREER FILTER MFG. CO., Pittsburg, at about $75,000. There will be four filter beds, the intake and the clear-water reservoir included in the contract. Later, a reservoir with a capacity of 1,500,000 gallons will be built a short distance from here, to be used only for fire-protection.

*CHESTER, PA.—Bids were opened on May 24 by the New Chester Water Co., A. W. MacCallum, Secy. and Gen. Mgr., 26 S. Third St., Philadelphia, for laying flanged intake pipe in Delaware River, constructing a brick well, laying 36-in. suction pipe, constructing addition to pumping station, installing two 300-HP. water-tube boilers, one 10,000,000 to 12,000,000-gallon cross-compound, high-duty pump, 40 tons of lead and 1½ tons of caulking yarn, furnishing and laying force main connecting present pump with new force main. Contract has been awarded to THOMAS OLIVER, of Chester, at about $265,000.

McKEESPORT, PA.—The NATIONAL WATER MAIN CLEANING CO. has been awarded contract by the Water Department to clean the rising main, leading from the main pump station to the city reservoir.

BALTIMORE, MD.—The PITTSBURG VALVE FOUNDRY & CONSTRUCTION CO. has been awarded contract by the city for 15 miles of steel pipe to be used in the erection of a new high-pressure water system. The expenditure for pipe aggregates $500,000.

*WASHINGTON, D. C.—Bids will be received by the Commissioners, District of Columbia, until noon, June 21, for furnishing c.-i. water-pipe.

PARKERSBURG, W. VA.—Bonds for $270,000 were sold on June 3 for the construction of water-works. Morris Knowles, of Pittsburg, Pa., is Engr.

CHESTER, S. C.—Contracts will be let in about 30 days for filters, turbine pumps and motors in connection with water-works improvements. H. Samuels is Mayor.

JESUP, GA.—The citizens on May 29 voted to issue $20,000 of bonds for the construction of water-works.

COLLEGE PARK, GA.—Solomon & Norcross, of Atlanta, have prepared preliminary plans, it is reported, for water-works and a sewer system. Estimated cost, $50,000.

JACKSONVILLE, FLA.—Bids will be received until June 18 by the Trustees of the Water Works and Improvement Bonds, Bion H. Barnett, Chn., for laying 14,656 ft. of 8, 12, 16 and 20-in. c.-i. pipe, and special castings, setting hydrants and valves. R. N. Ellis is Supt.

DAYTONA, FLA.—J. B. McCRARY & CO., Atlanta, have been awarded contract for constructing water-works plant at Daytona. Estimated cost, $50,000.

*LOUISVILLE, KY.—Contract has been awarded by the Louisville Water Co. to the ALFRED STRUCK CO., Louisville, at $104,642, for constructing a coagulating basin, gate-house and appurtenances. List of bidders noted last week. Webster Gazley is Associate Engr.

URBANA, OHIO.—John W. Hill, First National Bank Bldg., Cincinnati, is preparing plans for a new water supply for Urbana. Estimated cost, $150,000.

FOLLANSBEE, OHIO.—The Follansbee Light & Water Co. on June 4 let the contract for the erection of its new water plant to the A. L. FUNKHOUSER CO., of New Brighton, Pa. The contract calls for the construction of the reservoir, pumping station and the laying of the water mains through the town. Estimated cost, $35,000. The company will install a 1,000,000-gallon reservoir, which is to be constructed of clay, cement and brick, and will lay 18,000 ft. of pipe through the village. First-class machinery is to be installed in the pumping station.

INDIANAPOLIS, IND.—The Indianapolis Water Co. is planning to replace a number of 4, 6 and 8-in. mains in the downtown business district with larger ones.

KNOB, IND.—Bids will be received by the Knox Water & Light Co., Oscar B. Smith, Secy., until June 28, for water-works. George Cadogan Morgan, Royal Insurance Bldg., Chicago, Ill., is Engr.

SOUTH BEND, IND.—Bids will be received until June 18 by the Board of Public Works, W. A. McInerney, Chn., for water connections in Notre Dame St., Leland and Hudson Aves.

ALTON, ILL.—The WARREN CONSTRUCTION CO. has been awarded contract for the construction of a water-works standpipe here, at about $7,000. The pipe will be 25 ft. in circumference, and 105 ft. high.

SHEBOYGAN, WIS.—Bids are asked until 3 p. m., June 19, by the City Water Commissioners for laying approximately 5,000 lin. ft. of 30-in. c.-i. intake pipe under Lake Michigan.

DELPHOS, KAN.—Bids are asked until 1 p. m., June 23, by J. R. Adams, Mayor, for material and labor for constructing waterworks and an electric light plant. J. S. Worley Co. are Engrs., Reliance Bldg., Kansas City, Mo.

ELKHORN, NEB.—The citizens on May 25 voted to issue $10,000 of bonds for the construction of water-works. Charles Witte is Village Clk.

AUBURN, NEB.—Bids are asked until June 24, by the City Clerk for constructing a water-works system. Burns & McDonnell are Consulting Engrs., Scarritt Bldg., Kansas City, Mo.

BRYANT, S. DAK.—Bids will be received until June 21 by G. A. S. Arneson, City Audr., for constructing a water-works system.

COLTON, S. DAK.—It is proposed to construct water-works here. Estimated cost, about $8,000. L. Clarke is Town Clk.

STRAWN, TEX.—A company has been organized with J. H. Housley, Pres. and Louis Strawn, Secy.-Treas., to build water-works. Contract has been awarded to J. D. ENNESS, of Strawn, to drill a well, 12 × 12 ft.

HOUSTON, TEX.—Council has let contract for the completion of the Walker Ave. water-main to HORTON & HORTON, of Galveston, at 44 cts. per lin. ft. Other bidders were George Lowther, 50 cts.; I. Brooks, 63 cts.

TUTTLE, OKLA.—Bids will be received by the Town Clerk until June 24 for furnishing material and constructing waterworks; also same time and place for the purchase of $26,000 of water bonds. Kerby-Mayfield-Shaw Engineering & Construction Co., of Lawton, are Engrs.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of laying water-mains in 27th Ave. N. E. and other streets at $4,600.

PORTLAND, ORE.—The Water Board has awarded contract for 500 water meters to the PITTSBURG METER CO., Pittsburg, Pa., at $32,150.

OAKLAND, CAL.—The Board of Public Works awarded to COTTON BROS., Oakland, on June 3 contract to lay pipes for the salt-water auxilliary fire system between First, Eighth, Franklin and Washington Sts., at $15,762.

SAN FRANCISCO, CAL.—The plans for the first pumping station of the new auxiliary fire-protection system are nearing completion in the City Engineer's office, and the Board of Works will soon call for bids on this public construction. The station will be a 1-story, steel and concrete structure, 85 × 160 ft., located at Second and Townsend Sts. A 6-ft. concrete tunnel in Townsend St. will be run to the bay and through it the water pumped into the mains of the system will be drawn to the station. It is proposed to install at once four pumps of 750 HP. each capable of pumping a total of 11,000 gallons per min. at a pressure of 300 lbs. to the sq. in. Provisions for the installation of two additional pumps will also be made. Marsden Manson is City Engr.

RENO, NEV.—Articles of incorporation have been filed by the Mexican Dam & Ditch Co. The object of the company is to build dams, ditches and reservoirs, and operate a water storage system in this state. The incorporators are James T. Boyd, Lawrence E. King and G. J. Landers, all of Reno.

KINGSTON, ONT.—ELLIOTT BROS., Kingston, have been awarded contract for the installation of the new water supply at the Royal Military College, Kingston.

BURLINGTON, ONT.—Bids are asked until 8 p. m., June 21, by O. T. Springer, City Secy., for the following work: Contract B, pump house; contract G, electrically operated pumping machinery; contract I, steel pump well. Willis Chipman, C. E., is Ch. Engr., 103 Bay St., Toronto.

GRAVENHURST, ONT.—The citizens voted on May 28 to issue $20,000 of bonds for the construction of water-works.

SELKIRK, MAN.—Bids are asked by J. Partington, Secy.-Treas., until noon, June 28, for the installation of a water-works system here and the supply of all material.

ESTEVAN, SASK.—The BURRIDGE-COOPER CO., Winnipeg, Man., have been awarded contract for the supply of all materials and the construction of a waterworks system here. Cost, $50,000.

SEWERAGE.

(* *denotes that this work is advertised in Engineering News.*)

FARMINGTON, CONN.—Bids for the construction of 720 ft. of 10-in., 3,140 lin. ft. of 8-in., 583 lin. ft. of 6-in. and 12 ft. of 10-in. c.-i. pipe, with six manholes and two flush tanks will be received by the Borough Warden until 5 p. m., June 19.

HARTFORD, CONN.—Contract for the construction of 75 catch basins has been awarded by the Board of Contract and Supply to F. B. & W. H. O'NEIL at $3,982, if the work is to be of brick, and $3,870 if concrete is used. Bidders noted on June 10.

ALBANY, N. Y.—See item under Streets and Roads.

BROOKLYN, N. Y.—Bids were opened on June 2 by Bird S. Coler, Pres. Brooklyn Boro., for furnishing material and constructing sewer in 44th St. with outlet sewers in Eighth Ave., etc. Engineer's estimate, $23,595. Bids were received on the percentage basis as follows: Long Island Contracting & Supply Co., 82%; Murphy Bros., 104%; Vincent Mannino, 94%; Joseph Paladino, 93%; O'Grady Bros., 98½%; Donegan & Redmond Co., 94%; Sigretto & Bonnacci Co., 87%.

BINGHAMTON, N. Y.—The citizens on June 4 voted to issue $8,000 bonds to complete the Fourth Ward trunk sewer.

NEWARK, N. J.—Contracts have been awarded by the Board of Street and Water Commissioners for the construction of sewers as follows: East Branch storm water sewer, Section 1, to JAMES A. CHRISTIE, of Newark, at $42,608; Chelsea Ave. sewer, to PASQUALE COSTONE, of Newark, at $1,815.

LINDEN, N. J.—Bids will be received by the Mayor and Council of Linden and Township Committee of Linden, H. B. Hardenburg, Chn., until June 17 for sewers in Linden Township. Jacob L. Bauer, 130 Broad St., Elizabeth, is Engr.

WASHINGTON, N. J.—Bids are asked until 7.30 p. m., June 17, by A. J. Craft, Boro. Clk., for constructing 650 ft. of vitrified pipe and concrete storm sewer.

CARLSTADT, N. J.—The following bids were opened by the Borough Council on June 3 for the construction of storm water sewers in Division Ave., from Sixth to 13th Sts.: Vogel Contracting Co., Passaic, $6,057; Kastner & Lempe, Carlstadt, $6,245; Union Building & Construction Co., Passaic, $8,355; Norcross & Edmunds Co., $8,599.

RIDGEWOOD, N. J.—Bids will be received until 8.30 p. m., June 29, by J. Blauvelt Hopper, Village Clk., for furnishing material and constructing the following: About 18,000 ft. pipe sewers from 8 to 10-in. in diameter, with flush tanks, manholes, etc., sewerage pumping station, with about 3,300 ft. of 6-in. force main, settling tank and screening chamber.

POLK, PA.—Bids will be received by the Board of Trustees of the State Institution for Feeble Minded, J. M. Murdoch, Supt., until 2 p. m., June 28, for the construction of a sewer system. The work will consist of constructing approximately 13,000 ft. of terra-cotta sewers, ranging in size from 20 ins. to 6 ins., 35 concrete manholes, appurtenances and connections to the buildings.

HANOVER, PA.—See item under Streets and Roads.

BELLEVUE, PA.—Bids will be received at the office of J. M. Simeral, Secy. Council No. 69, Harrison Ave., Bellevue, until 6 p. m., June 21, for laying sewers as follows: Howard St., from California Ave. to Bayne Ave., approximate quantities, 675 ft. 8-in. sewer, two manholes, one double-flush tank; Bayne Ave., between Watkins Ave. and Myrtle Ave., 350 ft. of 8-in. sewer, two lamp holes, one manhole. Plans and specifications can be seen and bidding blanks obtained at the office of the Borough Engineer, Room 708, Fitzsimons Bldg., Pittsburg. John McBridge is Boro. Engr.

DOVER, DEL.—See item under Streets and Roads.

WASHINGTON, D. C.—The Board of Awards has opened bids for furnishing material to be used in construction of sewers, and recommended to the Commissioners of the District of Columbia that contracts be awarded as follows: For furnishing the District government 250,000 rectangular repressed vitrified sewer invert bricks, James M. Porter, Pittsburg, Pa., at $15 per M.; for terra-cotta sewer pipe to Potomac River Clay Works at following prices: 3,000 ft. 6-in. pipe at 6½ cts.; 2,000 ft. 8-in. pipe, 11 cts.; 7,000 ft. 10-in. pipe, 15 cts.; 12,000 ft. 12-in. pipe, 20 cts.; 23,000 ft. 15-in. pipe, 27 cts.; 200 pieces 12 × 6 Ts, 90 cts. each; and 200 10 × 6 Ts, 69 cts. each; for sewer pipe, American Sewer Pipe Co., 12,000 ft. 18-in. pipe, 38.25 cts.; 1,000 ft. 21-in. pipe, 56.25 cts.; 2,000 ft. 24-in. pipe, 73.121 cts., and 50 pieces 8 × 6 Ts at 46.125 cts each; for Portland cement, 15,000 bbls. in sacks and 8,500 bbls. in wood, to National Mortar Co., 612 F St. N. W., Washington, for delivery at warehouse at First and Canal Sts., in wood, $1.32; for deliveries f. o. b. cars at warehouse, 14th and D Sts., S. W., in cloth, $9.75 per bbl.; for 300,000 red sewer brick, Frederick Brick Works, at $9 per M., for deliveries in District property yards.

Bids are asked until noon, June 22, by the Commissioners of District of Columbia for constructing sewers in the district.

*WASHINGTON, D. C.—Bids were received as follows on June 14 at the office of the Commissioners of the District of Columbia for sewers in the District: (a) Warren F. Brenizer Co., (b) E. G. Gummel, (c) M. A. Gleeson, (d) Thomas A. Barry & Co., (e) Lyons Bros., all of Washington: Missouri Ave., trunk and outlet sewer—ordinary excavation, (a) 84 cts., (b) $1.50; sewer brick masonry, (a) $13.50, (b) $15.50; vitrified brick masonry, (a) $20, (b) $22.30; concrete masonry "D," (a) $7.35, (b) $8.50; invert block, (a) 75 cts., (b) $1; 6-in. subdrain pipe, (a) 30 cts., (b) 30 cts.; extension to Water and L Sts. intercepting sewer—ordinary excavation, (a) $1.50, (b) $1.50; sewer brick masonry, (a) $15, (b) $15; 15-in. diameter pipe, (a) 80 cts., (b) $1.25; 12-in. pipe, (a) 70 cts., (b) $1.15; 6-in. pipe, (a) 50 cts., (b) 75 cts.; Luzon Ave. sewer, Military Road to Army Hospital grounds—ordinary excavation, (a) 65 cts., (b) 65 cts., (c) 66 cts.; sewer brick masonry, (a) $15, (b) $15, (c) $20.50; 18-in. pipe, (a) 85 cts., (b) 90 cts., (c) 98 cts.; also for a facade wall at the sewer pumping station—ordinary excavation, (a) $4, (d) $1, (e) $2; concrete masonry "A," (a) $10, (d) $17.50, (e) $17; piling in place, (a) 25 cts., (d) 24 cts., (e) 40 cts.; lumber in place per M. ft., (a) 50 cts., (d) 40 cts., (e) 70 cts.; granite coping, (a) 70 cts., (d) $3.45, (e) $4.50.

ROANOKE, VA.—Bids are asked until noon, June 26, by R. H. Wills, City Clk., for constructing a sewer in the alley south of Chapman Ave.

HAMPTON, VA.—The city will construct 14,000 lin. ft. of sewers. Bids are asked until June 18. Girard Chambers is City Engr.

GAFFNEY, S. C.—The Board of Public Works has awarded the following contracts, bids opened on June 1, for the construction of sewerage system and addition to waterworks plant: GUILD & CO., Chattanooga, Tenn., for laying sewage and water pipes, at $20,235 and $6,907, respectively, and for building foundation for standpipe at $7 per sq. yd.; H. STEVENS SONS CO., Macon, Ga., at $7,463, for furnishing sewer pipe; GLAMORGAN PIPE FOUNDRY CO., Lynchburg, Va., at $23,239, for iron pipe, hydrants and valves; GREER FILTER CO., Pittsburg, Pa., at $28,000, for filter plant complete; R. D. COLE & CO., Newnan, Ga., at $8,218, for standpipe. William W. Lyon, 305 Duval Bldg., Jacksonville, Fla., is Consulting Engr.

MARIETTA, GA.—The city has awarded contract, bids opened on June 5, at $26,901 to SULLIVAN & LONG, Bessemer, Ala., for constructing a sanitary sewer system, embracing eleven miles of pipe sewers from 8 to 15 ins. in diameter, with necessary manholes, flush tanks, etc. J. B. McCrary & Co., are Engrs., 1302 Empire Bldg., Atlanta, Ga.

GREENWOOD, MISS.—W. E. Johnson, C. E. and City Atty., has been instructed to prepare plans and specifications for the construction of two 48-in. drain tiles.

*LOUISVILLE, KY.—Bids are asked by the Commissioners of Sewerage, Louisville, until noon, July 2, for construction of sewer known as Section B of the Northeastern Sanitary Trunk Sewer, Contract No. 31. Bids for this work were received on June 4, and were rejected.

Bids are asked by the same Commission until noon, July 9, for construction of sewer known as Section B of the South Louisville Branch Sewer, Contract No. 45. Harrison B. Eddy is Consult. Engr., 14 Beacon St., Boston; J. B. F. Breed is Ch. Engr., Louisville.

TOLEDO, OHIO.—Bids will be received by the Board of Public Service until noon, June 22, for furnishing the necessary labor and material for the construction of local sewer. Reynold Voit is Secy.

OBERLIN, OHIO.—H. J. GLOVER, Lorain, Ohio, has been awarded contract, it is stated, at $15,789, for constructing a sewage disposal plant, to consist of crushed stone, deposit beds and several acres of sand filters.

COLUMBUS, OHIO.—Bids will be received until noon, June 22, by the Board of Trustees, Ohio State University, Carl E. Steeb, Secy., for furnishing material and constructing sewers and drains on the grounds of the university. F. H. Eno is Engr., Columbus.

CLEVELAND, OHIO.—Bids will be received at the office of the Secretary of the Board of Public Service until noon, June 23, for the construction of sewers in various streets.

CINCINNATI, OHIO.—Bids will be received until June 21 by the Board of Public Service, John J. Wenner, Clk., for constructing sewers and drains in Dexter Ave. and Renner and Vaughn Sts.

GREENVILLE, MICH.—The Council has decided to construct a sanitary sewer in Webster St. with laterals, according to the plans of Riggs & Sherman, Toledo, Ohio. William T. Walker is City Clk.

PROPHETSTOWN, ILL.—It is proposed to establish two sewer districts here. Estimated cost, about $20,000. W. E. Smith is Mayor.

MUSCATINE, IOWA.—The contract for sewering East Hill was let to the INDEPENDENT CONSTRUCTION CO., of Davenport, on June 1 by the City Council, at $10,823, about $3,972 below the City Engineer's estimate. Nine bids in all were submitted. By the plat, practically all of East Hill will have sewerage improvement, including Weed Park and the Lincoln School, and all the cross streets bordering on Park Ave. Other bidders were: John Redmond, Muscatine, $16,722; Peter Wingerter, Muscatine, $12,717; W. A. Edgar, Cedar Rapids, $13,003; Eppel-Schlosses Co., Muscatine, $12,125; R. K. Smith, Muscatine, $14,434; William T. Riley Construction Co., St. Louis, $12,318; Davenport Construction Co., $15,153; August Korneman, $15,931.

PITTSBURGH, KAN.—Bids will be received about June 25 for the construction of vitrified pipe sewers. O. T. Jones is City Clk.

AUBURN, NEB.—Bids are asked until June 24 by the City Clerk, for constructing a sewer system here.

GRAND FORKS, N. DAK.—Bids are asked until 4 p. m., June 21, by W. H. Alexander, City Audr., for constructing a sewer to be completed by Oct. 15, 1909, of brick masonry, reinforced concrete or reinforced-concrete pipe.

GROESBECK, TEX.—The city contemplates the installation of a sewer system. W. A. Keeling, County Judge, is interested.

GEORGETOWN, TEX.—The city contemplates expending the sum of $30,000 for the improvement of the sewer and water systems.

MEXIA, TEX.—The city has awarded contract to W. W. COOK & SON, Junction City, Kan., for constructing the proposed sewer system. Estimated cost, $20,000.

PAWNEE, OKLA.—The city has awarded contract to the KATZ-CRAIG CONSTRUCTION CO., Omaha, Neb., for constructing a sewer system here. Estimated cost, $25,000.

DENVER, COLO.—Estimates have been made and plans and specifications adopted by the Board of Public Works for the construction of nine miles of storm sewers in West Denver. Estimated cost, $104,000.

CARLSBAD, N. MEX.—Bids were opened on May 24 for the construction of a sewer system from the plans of Burns & McDonnell, Scarritt Bldg., Kansas City, Mo. Contract has been awarded to W. A. REES, at $27,637.

SAN FRANCISCO, CAL.—The Board of Public Works on May 20 passed a resolution recommending that the Supervisors appropriate $163,000 for the construction of Section B of the Division St. sewer and for the construction of sewers and appurtenances in Fifth St.

The Board of Public Works on June 2 awarded contract to WILLIAMS & BELZER for constructing a sewer in the Academy tract at $18,660. Marsden Manson is City Engr.

*TORONTO, ONT.—We are officially advised that bids were received on June 9 by the Board of Contract and Supply for Sections 4 and 5 of the high-level intercepting sewer. The lowest bid submitted was that of John Wagner, of Cleveland, Ohio, at the following prices: (a) Section No. 4: $27.73, $33.85, $29.45, $21.75, $36.09, $31.33, $41.90 and $35.49 per lin. ft. Section No. 5: $24.75, $28.40, $24.95, $20.50, $29.06, $28.90, $38.90 and $31.79 per lin. ft. C. H. Rust is City Engr.

PRINCE ALBERT, SASK.—Bids will be received until noon, June 21, by C. O. Davidson, City Clk., for the supply and laying of about 3,600 ft. of 18 and 24-in. sewer with eleven manholes and 30 catch-basins, with all necessary connections.

STREETS AND ROADS.

(** denotes that this work is advertised in Engineering News.*)

LOWELL, MASS.—P. F. CONNORS, of Lowell, Mass., has been awarded contract at $1.24 per sq. yd., for 6,500 sq. yds. of granite block paving.

BOSTON, MASS.—Bids are asked by Guy C. Emerson, Supt. of Streets., until noon, June 18, for wood block pavement and regulating Falmouth, St. Paul and Norway Sts.

The ROCKPORT GRANITE CO., 31 State St., and the PIGEON HILL GRANITE CO., 166 Devonshire St., have secured contract, it is stated, for furnishing 650,000 granite blocks for street improvements, at $49,350.

HARTFORD, CONN.—Bids for the construction of state road work will be received in the office of the State Highway Commissioner, Capitol, until 2 p. m., June 18, as follows: Town of Thompson, 12,350 lin. ft. of gravel telford including one 15-in. and three 18-in. tile culverts; town of Scotland, 2,959 lin. ft. of grading, including one 15-in. tile culvert and concrete arch bridge; town of Essex, 5,722 lin. ft. macadam telford; town of Glastonbury, 5,200 lin. ft. macadam telford, including some tile pipe work; town of Somers, 1,807 lin. ft. macadam-telford, including one 10-in. and one 8-in. tile culverts.

ALBANY, N. Y.—F. B. Ware, State Arch., has awarded to the GEORGE W. DAVENPORT CO., of Albany, the contract for constructing a retaining wall and laying concrete sidewalks at the new State Normal College, Albany, now in course of erection. The contract price is $8,455.

Bids are asked by the Board of Contract and Supply until 3 p. m., June 21, for the following work: Improvement of Marshall St., between Second Ave. and Delaware Ave., the work including grading, curbing and paving the carriageway with vitrified paving blocks on a concrete foundation, laying sidewalks with flags and vitrified bricks, building receiving basin, etc.; for grading, curbing and paving a portion of the carriageway of Slingerland St. with vitrified bricks, the work including the necessary laying of sidewalks with flags and vitrified bricks and building receiving basins, etc.; for laying a 12-in. sewer pipe of vitrified stonework under the south sidewalk of Manning Boulevard, from the end of the present sewer west of Ontario St. to Manning Boulevard north. The construction of the sewer includes the necessary bends, branches, house connection, manholes and other appurtenances; for laying a 12-in. vitrified stoneware pipe sewer under the north side of the sidewalk of Livingston Ave., from the sewer of the west side of the Sand Creek road to a point about 300 ft. east of the east line of the Sand Creek road. The construction of the sewer includes the necessary bends, branches, house connections, manholes and other appurtenances. Walter Melius is City Engr.

OSWEGO, N. Y.—JOHN HENDRICK has secured the contract for paving with stone and brick a portion of East Second St. at $6,507.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded the following contracts: Ave. C, brick pavement, to F. C. BROTCH, at $8,882; Frankfort St., brick pavement, to M. CUNNINGHAM, at $5,061.

LITTLE FALLS, N. Y.—The WARREN BROS. CO., of Boston Mass., have secured contract for paving E. Main St., about 2,875 sq. yds. of bitulithic pavement.

UTICA, N. Y.—The BARBER ASPHALT PAVING CO., 131 Broad St., submitted the only bid on June 1, to the Board of Contract and Supply for paving Shaw and Mary Sts. with asphalt at $1.91 per sq. yd.

NEW YORK, N. Y.—JOHN C. RODGERS, 121 West 125th St., has been awarded contract at $625,307, by John F. Ahearn, Pres. Boro. Manhattan, for extension of Riverside Drive between north and south boundaries of Fort Washington Park. Bids were opened on June 1. List of bidders noted last week.

NEW YORK, N. Y.—Bids were received as follows on June 14, by the Department of Public Charities for (a) furnishing all the labor and materials necessary for regulating, grading, drainage walk construction and painting about the city hospital, Blackwells Island; (b) furnishing all the labor and materials necessary for regulating, grading, drainage, walk construction and painting about the Metropolitan Hospital district, Blackwells Island, City of New York: Dunbar Contracting Co., (a) $13,334; (b) $25,998; Atlanta Contracting Co., 230 E. 42nd St., (a) $18,000, (b) $32,000; John H. Troy, 24 E. 34th St., (a) $23,619, (b) $47,096.

NEW BRIGHTON (S. I.), N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, June 29, for furnishing and delivering 7,000 tons of broken stone and screenings of trap rock or Staten Island Syenite in Stone Delivery District No. 1, and same amount in District No. 3; also for furnishing and delivering 6,000 tons of broken stone and screenings of trap rock or Staten Island Syenite in stone delivery District No. 2.

NEWBURGH, N. Y.—The contract for paving N. Water St. with Pennsylvania clay has been relet to the TODD CONSTRUCTION CO., of Newburgh. Estimated cost, $11,000.

*BAYONNE, N. J.—Bids were not opened on June 1 for the reimprovement of Broadway from First St. to Morris Canal bridge, and the matter has been postponed. The work required consisted of about 78,200 sq. yds. of asphalt, bituminous concrete or bitulithic pavement on concrete foundation, with curb and other appurtenances. F. H. Dalrymple is City Engr.

NEWARK, N. J.—Contracts have been awarded by the Board of Street and Water Commissioners as follows for paving: To NEWARK PAVING CO., Newark, Hill St., from Broad St. to Washington Ave., brick, $7,175; 15th Ave., from S. Sixth to S. 19th Sts., granite block, $33,011; Prospect St., from Market St. to Ferry St., granite block, $6,105; to JERSEY PAVING CO., Hunterdon St., from Bigelow St. to Renner Ave., brick, $26,179; Peshine Ave., from Hawthorne Ave. to Renner Ave., brick, $15,454.

PATERSON, N. J.—Bids are asked by the Passaic County Board of Chosen Freeholders until 2 p. m., June 30, for repairing, macadamizing, etc., various roads in Passaic County. G. W. Bottyl is Clk.

CAMDEN, N. J.—We are officially advised that the Camden County Board of Chosen Freeholders received five bids on June 10 for building the Handonfield and Camden turnpike, comprising 53,330.93 sq. yds. of surfacing. Bids were asked on two propositions, first for ordinary macadam bound with heavy asphalt oil. These bids ranged from $1.32 to $1.03 per sq. yd. Separate bids were asked for amiesite. These prices ranged from $1.35 to $1.12 per sq. yd., 8 ins. deep. The contract was awarded to the J. F. SHANLAY CO., of Philadelphia, at $1.12 per sq. yd. for amiesite or at a lump sum of $62,455. J. J. Albertson is County Engr.

SOUTH ORANGE, N. J.—Bids are asked by the Township Committee until 8 p. m., June 22, for the construction of cement sidewalks in Railroad and Oakview Aves. William H. Kemp is Chn.

*DORRANCETON, (Wilkes-Barre P. O.), PA.—Bids will be received until 7 p. m., June 21, for paving and curbing Wyoming Ave., from Dorranceton line to the cemetery switch in the Borough of Forty Fort, between Aug. 1 and Nov. 1, 1909, according to the plans, profiles and specifications now on file in the office of Young & Wintermute, Boro. Engrs., Second National Bank Bldg., Wilkes-Barre, Pa., where the same may be seen; also for paving Wyoming Ave., from the Cemetery switch to Owen St.

HANOVER, PA.—Bids will be received until June 21 by the Paving Committee, L. I. Shultz, Chn., for about 8,000 sq. yds. of brick paving on concrete foundation and 2,500 ft. of steel-bound granolithic curb, and for a reinforced-concrete sewer across Carlisle St. A. E. Kohr is Boro. Engr.

BRACKENRIDGE, PA.—Bids are asked by the Borough until 7 p. m., June 22, for grading, paving and curbing a portion of North Canal St. E. G. Wolf is Chn. St. Com.

PHILADELPHIA, PA.—The Mayor on June 5 signed the Greater Parkway bill. The revised plan provides for a parkway 140 ft. wide between City Hall and Logan Sq., with a plaza at the City Hall end, embracing the block between Filbert and Arch Sts. and Broad and 15th Sts. The width of the parkway is increased from 200 to about 400 ft., starting at the west side of Logan Sq. and, gradually widening, it increases the width at Fairmount Park from about 400 to 800 ft. The bill also provides for placing on the city plan the first section of a lateral boulevard, 120 ft. wide, starting at Fairmount Park end of the parkway, and to be built along the eastern bank of the Schuylkill River. The section of this boulevard, to be named Schuylkill Ave., provided for in the bill, extends from the intersection of 25th and Callowhill Sts. to the parkway. George W. Stearns is Dir. Pub. Wks.

DOVER, DEL.—We are officially advised that plans are being prepared by the city engineering department for street and sewer improvements, work to be done this fall. Estimated cost, about $200,000. Bids will be asked soon. George S. Watson is Ch. Engr.

WILMINGTON, DEL.—Bids will be received until June 22 by Daniel Thompson, Chn. Finance Com., for $95,000 of highway improvement bonds.

*BALTIMORE, MD.—The State Road Commission opened bids on June 11 for constructing about 19 miles of roads in four counties. The lowest bidders were as follows: Allegany County, five miles, beginning at the end of 1-mile Shoemaker road from Cumberland to the Six-Mile House, Hottman Bros., of Washington, Pa., $38,657. Garrett County, 5 1-5 miles, from Oakland toward Thayerville, J. E. Francis, $58,469. Hartford County, two miles, from St. Ignatius' Church to Forest Hill, E. M. Good, Lancaster, Pa., $22,674. Prince George's County, 5¾ miles, from Upper Marlboro to Forestville, macadam, McCormick & Co., Philadelphia, $57,519; gravel, Fisher & Carozza, Baltimore, $45,649. With the exception of Prince George's County the bids were for macadam. John M. Tucker is Chn.

BALTIMORE, MD.—The Board of Awards let the following contracts on June 2 for street paving: Augusta Ave., between Potter Ave. and Walrad Ave., with asphalt tar, at $3,306, and Penhurst Ave., between Garrison Ave. and western city limits, with asphalt tar, to PATRICK FLANAGAN & SONS, Lexington and Calvert Sts., at $6,220; Irving Ave., between Frederick Ave. and Massachusetts Ave., with asphalt tar, to JOHN C. LEONARD, 26 Builders' Exchange Bldg., at $3,340; Ridgewood Ave., between Garrison Ave. and western city limits, with bitulithic, at $13,122, and Brunswick Ave., between Gwynn's Falls bridge and Wilkens Ave., with granite blocks, and between Wilkins and Frederick Aves., with bitulithic, to WARREN BROS. CO., at $21,346; Clifton Ave., from Twelfth to 16th Sts., with bitulithic, to WARREN BROS. CO., Boston, Mass., at $31,992. B. T. Fendall is City Engr.

*WASHINGTON, D. C.—Bids are asked until noon, June 26, by the Commissioners District of Columbia, for grading certain streets.

STAUNTON, VA.—Bids will be received at the office of the Clerk of the Circuit Court until noon, June 21, for the construction of about 4½ miles of macadam road in Augusta County (Greenville road). Harry Burnett is Clk.

CHASE CITY, VA.—BRADLEY & McAUGHEY, Richmond, Va., have been awarded contract for the construction of macadam roads in Chase City District. Lucius Gregory is chairman Road Bd.

BRAMWELL, W. VA.—The city has awarded contract to WINGATE & McGHEE, Roanoke, Va., for brick paving, draining and curbing streets. The sum of $25,000 is available for the work. D. C. Jones, Simmons, W. Va., is Engr.

FORT BARRANCAS, FLA.—Bids will be received until 11 a. m., July 8, by the Constructing Q. M., U. S. A., for constructing plank roads at Fort Pickens.

*PENSACOLA, FLA.—We are officially advised that contracts have been awarded for street paving by the city as follows: To U. S. WOOD PRESERVING CO., 165 Broadway, New York, at $180,263 for wood block; to SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, Tenn., at $202,692, for brick. T. Chalkley Hatton, Wilmington, Del., is Consulting Engr.

SELMA, ALA.—The city has awarded contract to the MEMPHIS ASPHALT & PAVING CO., Memphis, Tenn., for paving Washington St., from Selma to Alabama Sts., and Alabama St., from Washington to Lauderdale Sts., with asphalt at [illegible]16 per sq. yd.; to MATHEWS-GRAVES BRICK CO., Birmingham, for paving Washington St., from Water to Alabama Sts., and Alabama St., from Washington to Green St., with brick at $1.98 per sq. yd.

WEST POINT, MISS.—Bids are asked until 7 p. m., June 23, by J. [illegible] Young, City Clk., for constructing concrete sidewalks.

NEW ORLEANS, LA.—The BARBER ASPHALT PAVING CO. has been awarded contract at $487,476, for paving Carrollton Ave., from St. Charles Ave. to City Park Ave.

*JACKSON, TENN.—The CHAMBERLIN-FREECAN CONSTRUCTION CO., of Chattanooga, has secured the contract for 53,748 sq. ft. of sidewalk, 6,178 lin. ft. curb and gutter, 3,353 lin. ft. drain tile, etc. (bids opened on June 1) at $11,5[illegible]. Other bids were as follows: Hanes & Son, Cairo, Ill., $12,501; Georgian Ferro-Concrete Co., Athens, Ga., $14,710; Meacham Contracting Co., Hopkinsville, Ky., $12,761; [illegible] & Page, Augusta, Ga., $12,961; John Kelly, Elmira, N. Y., $12,145; Harris Engineering Co., Louisville, Ky., $14,745; Mim[illegible] Sneed-Wilson Co., Nashville, $12,004; W. [illegible] Cole, Birmingham, Ala., $13,010; R. [illegible] Hundford, Batesville, Ark., $18,959; West Construction Co., Chattanooga, Tenn., $12,[illegible]; Miracle Concrete Construction Co., Minneapolis, Minn., $14,175; Atwell Thompson is City Engr.

LOUISVILLE, KY.—The Board of Public Works on June 2 awarded contract for paving with asphalt a portion of Bismarck Ave., to the AMERICAN STANDARD ASPHALT CO., at $11,300.

CANTON, OHIO.—Bids will be received until June 21, readvertisement, by the Board of Public Service, C. A. Zellers, Clk., for paving portions of N. Cleveland Ave. and W. Seventh St., requiring 14,870 sq. yds. of vitrified block and 27,370 sq. ft. flag sidewalks, and improving Erie St., including 18,000 sq. ft. of flag sidewalk, and for laying 7,100 ft. of flag sidewalk, and 2,100 lin. ft. of curb on Worley Ave.

COLUMBUS, OHIO.—Bids will be received until July 2 by the Board of County Commissioners, John Scott, Clk., for grading, macadamizing and improving the Sunbury Road, a distance of five miles, in Mifflin Township.

The Board of County Commissioners on June 4 awarded the contract for rebuilding the pike from Central Ave. to Hoovern Road, near Buggsdale, to O. B. JEWETT, of Worthington, at $20,000.

CALDWELL, OHIO.—Bids will be received until June 22 by the Board of County Commissioners of Caldwell, for grading and paving with brick one mile of road in Noble Township under the provision of the State highway law. Estimated cost, $12,665. James C. Wonders is State Highway Comr., Columbus.

ATHENS, OHIO.—Bids will be received until June 23 by the Board of County Commissioners of Athens, for paving with brick about one mile of road in Athens Township, under the provision of the State highway law. Estimated cost, $13,020. James C. Wonders is State Highway Comr., Columbus.

TIFFIN, OHIO.—Bids will be received by the Board of Public Service until June 23 for about 10,000 sq. yds. of brick paving.

DALTON, OHIO.—Bids will be received by C. W. Horn, Village Clk., at his office until noon, July 10, for the improvement of Main St., between the east corporation line of the village, and the west line of property now owned by Peter Kuren, Sr., according to the plans and specifications on file in the office of the clerk.

COLUMBUS, IND.—Bids will be received until noon, July 5, by the Commissioners of Bartholomew County, for the construction of 6,676 ft. of gravel road in Clifty Township, known as tht Pitman road; also until 10 a. m., same date, for the construction of 5,340 ft. of macadam road in Rockcreek Township. John M. Davis, is County Audr.

VERSAILLES, IND.—Bids are asked by the Commissioners of Ripley County until noon, July 6, for the construction of 10,926 ft. of macadamized road in Delaware Township. Nicholas Volz. is County Audr.

MONTICELLO, IND.—Bids will be received by the Commissioners of White County until noon, July 6, for the construction of a macadam road in Princeton Township, known as the Swygman road. J. L. Ackerman is Audr.

VERNON, IND.—Bids are asked by the Commissioners of Jennings County until 11 a. m., July 5, for the construction of 10,032 ft. of pike road in Center Township, and 9,240 ft. of pike road in Geneva Township. T. L. Thomas is County Audr.

VINCENNES, IND.—Bids will be received by the Commissioners of Knox County until 2 p. m., July 6, for the construction of 6,375 ft. of gravel road in Vigo Township and 7,410 ft. in Palmyra Township; also until 10 same date, for the construction 15,800 ft. of gravel road in Widner Township. Joseph T. Scott is County Audr.

RUSHVILLE, IND.—Bids are asked by the Commissioners Rush County until 10, July 6, for the construction of 5,260 ft. of gravel road in Center Township and 13,200 ft. of gravel road in same township. Jesse M. Stone is County Audr.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., June 30, for the construction of 6,791.85 lin. ft. of gravel road in Center Township. William H. Nichols is County Audr.

NOBLESVILLE, IND.—HALLORAN & HAVERSTICK have been awarded a contract to construct a stone road in Dearborn County at $25,587.

LIZTON, IND.—J. L. RUTLEDGE & CO. have secured the contract to construct 12,144 ft. of gravel road in Hendricks County.

MOROCCO, IND.—Bids are asked until July 6, by the County Auditor of Newton County, for about twelve miles of macadam road in Jefferson Township. Estimated cost, $34,116.

GRAND HAVEN, MICH.—Bids are asked until 7.30 p. m., June 21, by Waldo Francisco, Supt. Pub. Wks., for constructing 13,000 sq. yds. of pavement on Washington St. Bids will be received on brick on concrete and Westrumite on concrete.

OAK PARK, ILL.—The JAMES A. SACKLEY CO., Chicago, Ill., has been awarded contract at $33,604, for constructing 14,260 sq. yds. of brick pavement and 8,620 lin. ft. of concrete curb and gutters.

*GLENCOE, ILL.—We are officially advised that the lowest bid submitted on June 1 to the Board of Local Improvements for Assessment No. 164, for 21,000 lin. ft. of concrete cement sidewalk, five feet in width, together with grading, foundation, etc., was that of A. D. Ney, Aurora, at $11,865, in accordance with Ney patent system.

FOND DU LAC, WIS.—Bids are asked, it is reported, until June 23, for cement paving in three streets. J. S. McCullough is City Engr.

MILWAUKEE, WIS.—The Board of Public Works has awarded contract for paving Wells St., from 33d St. to Western Ave. with tar macadam to the BADGER CONSTRUCTION CO., Milwaukee, at $2.18 per sq. ft.

BURLINGTON, WIS.—The Board of Public Works has awarded contract for paving six blocks with brick, Geneva St., to JAMES CAPE & SONS, Racine, Wis.

BEDFORD, IOWA.—WILLIAM HORRABIN, Iowa City, has been awarded contract at $1.80 per yd., for paving Main St., at 34 cts. per foot, for street and alley curbing.

WEBSTER CITY, IOWA.—SULLIVAN & ZITTERELL have secured the contract for paving Market Sq. at $6,375.

CLARINDA, IOWA.—Bids will be received by C. W. Stuart, City Clk., until June 22 for the construction of about 13,667 sq. yds. of pavement, [illegible]ified paving block, on 4-in. Portland ce[illegible]ncrete.

ST. PAUL, [illegible]N.—The contract for curbing and macadamizing Como Ave., from Capitol Boulevard to Great Northern Ry., was awarded on June 3 by the Board of Public Works to the GENERAL CONTRACTING CO., at $30,540. The work includes 20,000 sq. yds. of macadam, 6-in. limestone and 3-in. granite, and 8,090 lin. ft. sandstone curb.

ST. PAUL, MINN.—The Board of Public Works, Peter Van Hoven, Pres., has awarded the following contracts: Paving Como Ave. with macadam to the GENERAL CONTRACTING CO., Temple Court, Minneapolis, at $30,540; constructing a sewer in Columbia and other streets to the GENERAL CONTRACTING CO., Temple Court, Minneapolis, at $5,311. L. W. Rundlett is City Engr.

The contract for grading Wheelock Parkway, has been awarded by the Board of Park Commissioners, G. T. Redington, Secy., to THORNTON BROS., 208 Scandanavian American Bank Bldg., at $10,287.

LAWRENCE, KAN.—The GILMORE CONSTRUCTION CO., of Topeka, has secured contract for 25,700 yds. of brick paving of one and two course work on sand and concrete foundation. Bids were opened on June 7 by the city.

FULTON, MO.—C. P. WERNER, Sedalia, Mo., has been awarded contract at $9,845, for macadamizing, constructing combined curb and gutter, grading and tarring.

WEBB CITY, MO.—Bids are asked, it is reported, until June 21 for constructing 11,524 sq. yds. imperial pavement on Joplin St. A. J. McKenzie is City Engr.

TEMPLE, TEX.—Bids are asked until 6 p. m., June 25, by William Ginnuth, Mayor, for street paving.

BEAUMONT, TEX.—C. L. Scherer, City Engr., will prepare plans and specifications for street paving here.

BROWNWOOD, TEX.—Precinct No. 1 has voted $100,000 of bonds for the construction of roads out of Brownwood.

*McALESTER, OKLA.—Bids will be received by J. M. Gannaway, City Clk., until June 28 for 34,551.7 sq. yds. of vitrified block pavement on a concrete base, with necessary curb and gutter of concrete, and 22,929.4 cu. yds. excavation; also for 36,551.1 sq. yds. of asphalt on concrete, with curb and gutter of concrete, and 32,751 cu. yds. excavation. J. Phelan is City Engr.

CENTRALIA, WASH.—Bids will be received until June 22 by the City Council for grading and paving Pearl, Walnut, Locust and six other streets, with vitrified brick, asphalt, Hassam pavement of wood blocks. Estimated cost, $75,000. W. H. Hodge is City Clk.

SALT LAKE CITY, UTAH.—P. J. MORAH, Salt Lake City, has been awarded contract, bids opened on May 28, at $55,547, for resurfacing, reguttering and recurbing Main St. L. C. Kelsey is City Engr.

ST. CHARLES, MAN.—Bids will be received by Charles Ness, Secy.-Treas., until 6 p. m., June 26, for 6,215 lin. ft. of plank sidewalks.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

NORTHAMPTON, MASS.—We are officially advised that the H. P. CUMMINGS CONSTRUCTION CO., 95 Milk St., Boston, and Ware, Mass., has secured contract for building an addition to Belding Bros. & Co.'s silk mill at Northampton, Mass. Same is to be a 5-story brick building, 120 ft. long × 65 ft. wide, costing about $40,000.

BRIDGEWATER, MASS.—Jenkins Bros., manufacturers of leatherboard, whose mill was burned last fall, will rebuild on the same site. The new mill will be 265 ft. long, 70 ft. wide, two stories high, with a 50-ft. square building four stories high to be used for drying purposes. The mill will employ about 50 hands and will be in operation early in the fall.

PLYMOUTH, MASS.—The George Mabett & Sons Co. is preparing the site for the addition to be erected to the plant, which will be 30 × 115 ft. Two complete shifts of workmen will be employed by the company upon the completion of the new building, the mill being operated 24 hours daily with the exception of Sundays.

NORTH BROOKFIELD, MASS.—The directors of the Oxford Linen Mills have awarded contracts for the erection of three new reinforced-concrete buildings to the EASTERN CONCRETE CONSTRUCTION CO., of Boston. These buildings will cost about $150,000. The machinery to be used in them will cost, it is estimated, $150,000 also.

POUGHKEEPSIE, N. Y.—De Bois Carpenter, Arch., 45 Market St., Poughkeepsie, is preparing preliminary plans for a $40,000-factory building, of reinforced concrete, three stories, 50 × 80 ft., for Reynolds & Co., grocers, to be erected in Main St., opposite the N. Y. C. R. R. station in Poughkeepsie. The architect probably will take bids on the general contract at once.

CENTER FALLS, N. Y.—We are officially advised that the Blandy Paper Co., of Center Falls, has awarded contract for constructing an addition to its plant to the H. P. CUMMINGS CONSTRUCTION CO., 95 Milk St., Boston, and Ware, Mass. George F. Hardy is Engr.

HORNELL, N. Y.—W. S. Brickell, Arch., 594 Ellicott Sq., Buffalo, N. Y., has prepared plans for a factory building, 60 × 200 ft., two stories, and power-house, 60 × 60 ft., to be erected here by the De Shaum Hornell Motor Co., manufacturers of automobiles. Both buildings are to be of reinforced concrete and steel construction. Cost, about $30,000.

SYRACUSE, N. Y.—The Syracuse Safe Co. will erect a concrete and steel factory building, 65 × 318 ft., one and two stories, at Canal St. and Teall Ave. Wellington W. Taber, Arch., O. C. S. Bank Bldg., is preparing plans for same.

Plans have been completed for the 3-story brick and concrete detinning plant, 120 × 150 ft., to be erected by the Goldsmidt Chemical Co., of 50 Wall St., New York, at Syracuse, N. Y., at a cost of about $35,000. Bids are now being received on the general contract and separate contracts by Dr. F. H. Hirschland, Gen. Mgr. of the company.

BUFFALO, N. Y.—We are officially advised that the Danahy Packing Co. has awarded general contract to CHARLES BERRICK SONS, 1151 Main St., Buffalo, to erect a 1½-story abatoir, 62 × 72 ft. The building will cost $13,000 and equipment $6,000. Warrenwetsch & Co., 563 William St., Buffalo, are Archs.

The Otis Elevator Co., 17 Battery Pl., New York, has let general contract to METZ BROS., 1295 Fillmore Ave., for a 1-story brick machine shop, 60 × 256 ft., which it will add to its plant at Grider St. and New York Central R. R. Cost, $20,000.

The Husted Milling Co. will build a 6-story brick, steel and reinforced-concrete fireproof mill, 28 × 70 ft., at Prenatt St. and the N. Y. C. & St. L. Ry. to replace the mill destroyed by fire a few weeks ago; also 24 grain storage bins, 14 ft. square, 60 ft. high. The A. E. Baxter Engineering & Appraisal Co., 945 Ellicott Sq., are preparing plans.

BUFFALO, N. Y.—The Ziegele Brewing Co., Washington and Virginia Sts., will remodel and rebuild its stock house, 45 x 125 ft., four stories and basement, of brick, steel and concrete construction. Otto C. Wolff is Arch., 1125 Arch St., Philadelphia, Pa.

WEST ALBANY, N. Y.—The New York Central & Hudson River R. R. Co., 335 Madison Ave., New York, will erect at once at West Albany, a fireproof blacksmith and machine shop, one and three stories, brick, steel and structural terra cotta, to cost around $200,000. Estimates will be taken on separate contracts by the owners. D. R. Collin is the company's architect; G. W. Kittredge, Chief Engr.; J. H. Van Buskirk, Mechanical Engr.

BROOKLYN, N. Y.—Wm. Steele & Son, Archs. and Engrs., 1600 Arch St., Philadelphia, Pa., have taken bids during the week for a 6-story fireproof factory addition, 45 × 90 ft., with an "L" and power-house, to be erected by A. G. Spalding Bros., dealers in sporting goods, at Fifth and Pacific Sts., Brooklyn. J. Brown, 126 Nassau St., is in charge for the owners. The cost is estimated at $150,000.

DUNDEE, N. Y.—At a meeting of the stockholders of the Dundee Brass Mfg. Co. it was unanimously voted to rebuild a factory at once. A building committee has been appointed consisting of J. M. Ovenshire, John W. Norris and Charles Watson.

UTICA, N. Y.—The Utica Steam and Mohawk Valley Cotton Co. has had plans prepared for an addition to the mill on State St. The building will be of brick and will be located on the Court St. side. It will take in the "L" which was formerly used as a cloth room. The exterior length will be about 160 ft. and the width 80 ft. There will be four stories. The addition will be equipped with broad looms and will supplement the mill with which it will be connected. The contracts have not been let, but the company hopes to have arrangements made so that the work can go forward in a short time.

JERSEY CITY, N. J.—The W. L. CROW CONSTRUCTION CO., 289 Fourth Ave., New York, has secured the general contract to erect the fireproof addition to the plant of the American Type Founders' Co., of 6 Duane St., New York, at Monitor and Garrabrant Sts., Jersey City, from plans by John T. Rowland, Jr., 15 Exchange Pl., Jersey City. Estimated cost, $50,000.

PUNXSUTAWNEY, PA.—The United Textile Corporation, of New York, has purchased a tract of 6¼ acres of ground in the West End, and will erect a silk mill at once. Bond has been given that the first unit of the mill, to employ about 100 hands, will be completed and in operation by Jan. 1, 1910. Other units will then be built as the conditions of trade demand. The plans for the mill have already been completed by the company's engineers in the East, and contracts will be awarded within the next few weeks. The buildings will all be of steel, stone and concrete construction, and fireproof throughout. The machinery for the mill is being ordered by the company from New York.

YORK, PA.—We are officially advised that the Pennsylvania Foundry Co., York, has awarded the structural steel contract for its proposed foundry and pattern shop to the YORK BRIDGE CO., York, Pa. All other contracts will be awarded to local bidders. The foundry will measure 100 × 100 ft. and the pattern shop, 40 × 60 ft.

NORTHAMPTON, PA.—Plans are being prepared for the erection of an addition for the Central Mfg. Co. of Northampton. The concern has decided to build a structure of two stories, 56 × 117 ft. Work will be started as soon as possible and it is expected to be completed by Sept. 1. The exclusive product of the plant is broad silk and there are 100 persons employed in its manufacture. The enlargement will mean work for 150 more. Herman Feldhege is the Supt.

JEANNETTE, PA.—The Northwestern Expanded Metal Co., Old Colony Bldg., Chicago, Ill., has purchased the plant of the Jeannette Planing Mill Co., here, and will remodel the buildings and install entire new equipment, including power plant, sheet metal and lath making machinery at once. The price paid for the mill was $35,000, and when completed, sheet metal expanded lath will be manufactured. Four hundred men will be employed. The same company owns and operates similar plants at Chicago, Ill., and Canton, Ohio. E. H. Jones is Secy. and Gen. Mgr.

BALTIMORE, MD.—Joseph Evans Sperry, Arch., Calvert Bldg., has finished plans for an addition to be made to the straw hat factory of M. S. Levy & Sons, at Lombard and Paca Sts. The building to be erected will be a 6-story brick structure and will conform in architecture with the present building on the corner. The new part will be on the east side and will be 51 × 85 ft. The foundation will be of brick and concrete and the interior will be of mill construction. The addition will be used for manufacturing purposes exclusively and will mean the employment of additional hands in the factory. Bids will be received from the following contractors: George A. Blake, Walter E. Burnham, Baltimore Ferro-Concrete Co., Edward Waters & Co., Morrow Bros., Thomas L. Jones & Son, J. Henry Miller and George Bunnecke & Sons.

RICHMOND, VA.—Plans for a grain elevator and warehouse, 40 × 135 ft., to be built here by W. F. Richardson & Co., are being prepared by the A. E. Baxter Engineering & Appraisal Co., 945 Ellicott Sq., Buffalo, N. Y. The structure will be of concrete and steel construction with 50,000 bushels capacity. Cost, $18,000.

KANNAPOLIS, N. C.—It is reported that the Cannon Mfg. Co. of Concord, N. C., and the Patterson Mfg. Co., of China Grove, N. C., will build another mill at Kannapolis, N. C., where they are operating spindles and looms in branch plants. John W. Cannon, of Concord, N. C., is Pres. of both companies. These are operating in all about 93,000 spindles and 2,500 looms, with more than 2,500 persons employed. They represent an investment of over $2,000,000.

MUNROE, N. C.—The Icemorlee Cotton Mills Co., of Monroe, N. C., will build its proposed duplicate mill, and will increase its capital stock from $125,000 to $300,000. Plans and specifications have been prepared for the building, which will be 350 × 75 ft., and of brick construction. It will be equipped with 5,000 spindles, for the production of cotton yarns. Besides the mill there will be erected some 50 houses for the additional employees. Charles Iceman is the Executive Mgr. of this plant.

GAFFNEY, S. C.—CURRY & SPURGEON, of this city, have secured contract to build an addition for the Gaffney Mfg. Co. This addition will be equipped with new machinery. The company, which increased its capital from $75,000 to $200,000 a few weeks ago, now operates 4,000 spindles.

LAURENS, S. C.—The Laurens Cotton Mill will build an 80-ft. extension to its present building, and has awarded the contract to the GALLIVAN BUILDING CO., of Greenville, S. C.

SUMMERVILLE, GA.—The stockholders of the Summerville Cotton Mills have decided to build an addition. The capital stock will be increased by $150,000, which will make it $300,000. The plan of the management is to double the plant, which has an equipment of 5,000 ring spindles, 120 looms, etc., for manufacturing duck and osnaburgs. About 100 operatives are employed. John D. Taylor is Pres.

ROCKWOOD, TENN.—The Rockwood Mills will increase capital stock by $25,000 and build a 60 × 200-ft. addition, to be equipped with machinery for increasing the company's daily output to 1,000 dozen pairs of hosiery.

INDIANAPOLIS, IND.—The Overland Automobile Co. is asking for bids for the erection of a factory on Oliver Ave. Estimated cost, $14,000. W. H. Brown is Pres.

BRAZIL, IND.—The Brazil Factory Club has closed a contract for the location of a glass company that will soon erect a glass factory to cost $100,000. Mayor Shattuck will give further information.

GREENSBURG, IND.—The Bromwell Brush & Wire Co. will ask for bids soon for the erection and equipment of an addition to its plant. The building will be of iron and brick, 80 × 80 ft., two stories high.

FT. WAYNE, IND.—The Atlas Locomotive Ash Pan Co., recently incorporated with a capital of $100,000, will establish and equip a factory for the manufacture of an ash pan for locomotives. J. A. Schwartz, T. P. Whelan and N. C. Myers are Dirs.

SHELBYVILLE, IND.—The contract to erect the C. H. Campbell Furniture Co. factory has been awarded to WILLIAM ROBERTSON at a bid of $27,325. The other bidders and bids were as follows: Edward Mings, $30,597; Pulse & Porter, $30,579; J. D. Ballard, $27,713. The factory will be erected on the plot just west of the Spiegle factories. It will be constructed of brick and it is expected that the plant will be in operation by Jan. 1.

CHICAGO, ILL.—We are officially advised that the Linde Air Products Co., 155 Chandler St., Buffalo, N. Y., and 346 Broadway, New York City, has secured a site at the corner of 145th St. and Kennedy Ave., in East Chicago, upon which to erect a factory. Cecil Lightfoot, Buffalo, is Consult. Engr. and Gen. Mgr.

The Cribben & Sexton Co., 56 Erie St., will erect a factory which will cost more than $300,000 at the northwest corner of Franklin Boulevard and Ohio St. The lot is 910 × 373 ft.

MADISON, WIS.—We are officially advised that J. H. Findorff will rebuild immediately the planing mill destroyed by fire on May 13. The plant will be of brick construction, one story and 56 × 126 ft. The new building will be fireproof, two stories high and will cost $15,000; equipment, $10,000.

WAUSAU, WIS.—The Marathon Paper Mills Co. has awarded the following contracts for erection and equipment of a new paper mill at Rothschild, Marathon County, Wis.: General construction work on buildings, JOHN ANDERES & SON, Wausau; steel, WAUSAU IRON WORKS; electric wiring, switchboard and appliances, LOUNSBURY BROS. & CO., Chicago, Ill.; brick (4,000,000 cream), RINGLE BRICK CO., Wausau; machinery: Seven 84-in. wet machines, BELOIT (Wis.) IRON WORKS; four 3-pocket, 27 × 54-in. international grinders, FRICTION PULLEY & MACHINE CO., Sandy Hill, N. Y.; one Green Bay barker, GREEN BAY FOUNDRY & MACHINE CO.; screens for sulphite and groundwood mills, GLENS FALLS MACHINE WORKS, Glens Falls, N. Y.; ten 6-ft. barkers with Lombard attachment, one double verticle splitter, two 88-in. 4-knife clippers, one 7 × 27-ft. chip screen, VALLEY IRON WORKS, Appleton, Wis.; two Ormon knot screens, H. L. ORMAN, Dayton, Ohio. Dam construction and 510 tons steel sheet piling, GEORGE M. PAINTER CO. Total cost, $1,500,000. Jacobsen & DeGuere, Grand Rapids, Wis, are Archs.

FORTH WORTH, TEX.—The Schwarzschild & Sulzberger Co., 41st St. and Ashland Ave., Union Stock Yards, Chicago, has completed arrangements to build a $4,000,000 packing plant in Fort Worth.

SPOKANE, WASH.—As a site for a 3-story factory building Harrild & Sons have leased a tract on Boone Ave., running through to the O. R. & N. tracks, west of Monroe St. The ground is 77 × 125 ft. and it was leased from the Mutual Investment Co., composed of C. V. Wadham, George T. Brown and Memhard & Miller. The lease is for ten years. Harrild & Sons will erect a factory building on the site, 50 × 100 ft., with full basement. It will cost about $15,000, exclusive of the equipment. Work is to start at once. The building will be equipped as a furniture factory, manufacturing all kinds of furniture from native woods.

FORT WILLIAM, ONT.—The Ogilvie Milling Co. has decided to increase its elevator capacity here by 16 concrete grain tanks with a total capacity of 500,000 bushels.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation canal projects, etc., will be found under Water Supply—Irrigation.

DREDGING.—Wilmington, Del.—Bids will be received by Capt. L. H. Rand, Corps. of Engrs., U. S. A., until July 8 for dredging Tuckerton Creek.

*DREDGING.—Buffalo, N. Y.—Bids are asked until 11 a. m., July 15, by Col. W. L. Fisk, Corps Engrs., U. S. A., for dredging in entrance channel and basin at Erie Harbor, Pa.

DITCH.—Henning, Ill.—The contract for the Bean Creek drainage district ditch was let recently to the NATIONAL DRAIN TILE CO., of Terre Haute, Ind. The contract price was $10,750.

GRANITE.—New York, N. Y.—Bids are asked until noon, June 18, by the Department of Docks and Ferries, for furnishing and delivering granite stone for bulkhead or river wall.

DITCH.—Monticello, Ind.—Contract has been awarded to the WOLCOTT DREDGING CO., of Wolcott, Ind., at $36,697, for building the Big Creek ditch. Estimated quantity, 649,512 cu. yds.

DITCH.—Aitkin, Minn.—The contract for the construction of county ditch No. 13 has been awarded to D. M. FALCONER and EARL E. DOTTEN, of Cromwell, Minn. Estimated cost, $10,000.

RIVER IMPROVEMENTS. — Marysville, Cal.—The U. S. DREDGING CO., of San Francisco, has been awarded contract for the excavation of the Feather River cut-off at Marysville, at $28,750.

LIGHTHOUSE.—Tompkinsville, N. Y. — Bids are asked until 1 p. m., June 28, by the Light-House Engineer, Tompkinsville, for furnishing materials and labor of all kinds necessary for the construction and delivery of a light-house at Staten Island Rear Range Light-Station, Ambrose Channel, New York.

STEEL SHEDS.—New Orleans, La.—The MASSILLON BRIDGE & STRUCTURAL CO., Massillon, Ohio, has the contract for the steel sheds to be erected at Celeste, St. Andrew and Bienville Sts. Cost, $68,555.

DRAIN.—Des Moines, Iowa.—Bids will be received until July 6 by H. B. Frase, County Audr, for constructing a drain in Drainage Dist. No. 7, Madison Township, requiring the laying of 14,600 ft. 16, 14 and 10-in. tile.

STONE.—New Orleans, La.—Bids are asked until 11 a. m., June 21, by Lieut.-Col. L. B. Beach, Corps Engrs., U. S. A., for furnishing and delivering stone at South Pass and Southwest Pass, Mississippi River.

***DREDGING.**—Milwaukee, Wis.—Bids have been received by Maj. Charles S. Bromwell, Corps of Engrs., U. S. A., for dredging at Manitowoc Harbor, Wis. Lowest bidder was Ernst Schmidt, Two Rivers, Wis., at $10,125.

DRAIN.—Billings, Mont.—Bids are asked by the County Drain Commissioner until June 10 for the construction of the Nutting drain near Laurel; drain to be wooden box about five miles long; average cut, about 6 ft.

REPAIRING FERRYBOATS.—New York, N. Y.—Bids were received by Allen N. Spooner, Comr. of Docks, on June 7, for repairing the municipal ferryboats or other floating ferry property and furnishing and deliveing supplies therefor. Lowest bidder was the John W. Sullivan Co., 827 East Ninth St., New York, at $60,178.

DITCH.—Stillwater, Minn.—Contract for constructing Judicial Ditch No. 2, requiring about 202,250 cu. yds. excavation and the construction of bridges, has been awarded to SWEENEY & SON, of Irene, S. Dak., at $14,981.

***DITCH.**—Sious Falls, S. Dak.—Bids were received June 4 by Henry Howe, County Audr., for constructing drainage ditch No. 2, requiring about 500,000 cu. yds. excavation. Samuel H. Lea, State Engr., Pierre. The contract was awarded to the HAMLIN CONSTRUCTION CO., Pocahontas, Iowa, at $43,135.

STONE, ETC.—Jacksonville, Fla.—The following are the bids received on May [illegible] at the U. S. Engineer office for furnishing stone and raising jetties at mouth of St. John River, Fla. (about 60,000 tons): P. Sanford Ross, Inc., Jersey City, N. J., $414,000; Chas. Clark & Co., Galveston, Tex., $192,600; Blackstaff Engineering Co., 1332 Walnut St., Philadelphia, Pa., $134,400; Roderick G. Ross, Jacksonville, [illegible].

(Continued on page [illegible])

CONTRACT PRICES.

(** denotes that this work is advertised in Engineering News.*)

***SEWERS.**—Auburn, N. Y. Bids were received by C. A. Koenig, Mayor, on April 20, for the construction of seewrs and appurtenances. Bids in detail were as follows: (A) H. B. HOOKER & SON, Rochester, N. Y. (awarded contract); (B) Charles Ippolito, Auburn; (C) Thomas Sweeney Co., Pittsburg, Pa.; (D) William McCarthy & Co., Pittsburg; (E) Haggerty Contracting Co., New York; (F) T. H. Riddle, Philadelphia, Pa.; (G) Kelley & Long, Boston, Mass.; (H) Sherman & Beebe, Utica, N. Y.; (I) Cusano & Douer, Niagara Falls, N. Y.; (J) Goodale & Jenison, Schenectady, N. Y.; (K) Tyne & Willey, Binghamton, N. Y.; (L) Gaffey Construction Co., Syracuse, N. Y.; (M) David Peoples, Rye, N. Y.; (N) Standard Construction Co., Chicago. W. Thomas Wooley is City Engr.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
20,800 lin. ft. of 5" sewers for house services	$0.12	$0.12	$0.16	$0.12	$0.14	$0.12	$0.10	$0.12	$0.13	$0.08	$0.15	$0.11	$0.17	$0.14
17,200 lin. ft. of 8" sewers	.23	.25	.33	.20	.25	.25	.20	.24	.22	.18	.23	.25	.26	.24
7,400 lin. ft. of 10" sewers	.33	.33	.39	.26	.34	.30	.34	.34	.29	.25	.33	.35	.38	.33
5,300 lin. ft. of 12" sewers	.42	.42	.50	.34	.45	.40	.40	.43	.38	.34	.40	.45	.48	.40
4,850 lin. ft. of 15" sewers	.54	.54	.59	.46	.60	.52	.48	.57	.53	.44	.59	.50	.65	.55
2,500 lin. ft. of 18" sewers	.67	.68	.68	.56	.74	.61	.61	.70	.78	.57	.73	.65	.75	.68
2,350 lin. ft. of 20" sewers	1.04	.86	.94	.80	.97	.92	1.11	1.10	1.04	.90	1.08	.90	1.00	.95
2,850 lin. ft. of 22" sewers	1.26	.96	1.07	.94	1.15	1.10	1.26	1.20	1.20	1.00	1.35	1.00	1.20	1.16
1,000 lin. ft. of 24" sewers	1.47	1.02	1.62	1.04	1.34	1.33	1.43	.40	1.35	1.10	1.48	1.25	1.45	1.30
2,500 cu. yds. excavating and backfilling rock, or boulders containing more than 10 cu. ft.	2.98	3.00	3.50	2.00	5.84	4.00	5.25	4.50	3.25	4.50	4.00	3.50	4.00	4.00
66,500 cu. yds. excavating and backfilling earth, and boulders containing 10 cu. ft. and under	.42	.55	.56	.74	.93	.66	.95	.65	.73	.60	.99	.65	.75	.70
4,500 lin. ft. of 4" tile	.08	.09	.09	.08	.09	.10	.25	.10	.08	.03	.10	.10	.15	.08
6,300 lin. ft. of 6" tile	.12	.12	.13	.12	.14	.12	.30	.15	.10	.065	.14	.13	.25	.09
1,150 ft. vertical height of 160 maaholes, complete, including iron frame and cover	4.46	4.75	4.00	6.00	6.00	6.00	5.00	5.00	5.50	4.00	5.00	6.00	4.75	5.50
5 flush tanks in place, complete, except water supply connection	97.00	60.00	78.00	57.00	60.00	75.00	75.00	50.00	70.00	60.00	65.00	60.00	75.00	75.00
250 lin. ft. of lead pipe for flush tank connections	.50	.30	.60	.35	.48	1.00	.18	.50	.40	.35	.30	.45	.40	.40
3 lampholes, in place, complete, including iron frame and cover	14.88	16.00	10.00	8.00	12.00	10.00	7.00	15.00	10.00	10.00	10.00	10.00	50.00	12.00
50 tons of cast-iron pipe, laid in place, not including excavation	39.00	29.00	30.00	30.00	36.00	40.00	35.00	40.00	30.00	30.00	35.00	35.00	60.00	45.00
1,600 cu. yds. of embankment	.37	.35	.55	.45	1.44	.50	.60	.50	.50	.40	.55	.40	1.50	.40
300 cu. yds. of gravel, stone or cinders placed about drain tile.	.90	1.40	2.00	2.00	1.44	2.50	2.00	1.00	2.00	1.50	1.45	1.50	2.50	2.00
50,000 ft. B. M. for lumber in place in artificial foundations	44.00	26.50	28.00	10.00	42.00	40.00	46.00	30.00	25.00	30.00	40.00	35.00	40.00	35.00
50,000 ft. B. M. for lumber used for sheeting and bracing in trench	30.00	23.00	10.00	30.00	42.00	25.00	25.00	35.00	25.00	30.00	35.00	25.00	28.00	25.00
400 cu. yds. 1-3-5 P. C. concrete used around tile and appurtenances	5.95	5.00	5.70	5.00	7.20	8.00	7.50	6.00	6.00	7.50	7.50	5.00	7.00	6.00
5,000 lbs of steel rods for concrete reinforcement	.05	.03	.02	.05	.04	.05	.04	.05	.04	.03	.05	.04	.05	.05
Total	$74,341	$79,736	$85,624	$88,584	$120,674	$94,711	$117,204	$94,143	$94,847	$83,488	$117,602	$90,454	$106,524	$96,261
Working days	150	180	200	120	200	120	175	175	200	200	200	300	300	200
Total, including working days	$75,841	$81,536	$87,624	$89,784	$122,674	$95,911	$118,954	$95,893	$96,847	$85,488	$119,602	$93,454	$109,524	$98,261
ALTERNATE BID.														
2,800 lin. ft. of 5" sewers for house services	$0.12	$0.12	$0.26	$0.12	$0.14	$0.12	$0.10	$0.12	$0.13	$0.08	$0.15	$0.11	$0.17	$0.14
3,450 lin. ft. of 8" sewers	.23	.25	.33	.20	.25	.23	.20	.24	.22	.18	.23	.25	.26	.24
2,850 lin. ft. of 10" sewers	.33	.33	.39	.26	.34	.27	.34	.34	.29	.25	.33	.35	.38	.33
500 cu. yds. excavating and backfilling, rock or boulders	2.98	3.00	3.50	3.00	5.84	4.00	5.25	4.50	3.25	4.50	4.00	3.50	4.00	4.00
8,800 cu. yds. excavating and backfilling, earth or boulders	.42	.55	.56	1.10	.93	.66	.95	.65	.73	.60	.99	.70	.75	.68
180 ft. vertical height of 20 manholes	4.46	4.75	4.00	6.50	6.00	6.00	5.00	5.00	5.50	4.00	5.00	6.00	4.75	5.50
400 cu. yds. of embankment	.37	.35	.60	.50	1.44	.50	.60	.50	.50	.40	.55	.40	1.50	.40
100 cu. yds. of 1-3-5 P. C. concrete	5.95	5.00	6.00	6.00	7.20	8.00	7.50	6.00	6.00	7.50	7.50	5.00	7.00	6.00
Total	$8,802	$9,974	$11,216	$14,917	$15,703	$11,787	$14,814	$11,803	$11,788	$10,717	$14,736	$11,818	$13,211	$11,894

PRESSURE TUNNEL.—New York, N. Y.—Bids in detail for contract 20, the Moodna Pressure Tunnel, Catskill Aqueduct, were received on June 3 by the Board of Water Supply, as follows: (A) MASON & HANGER CO., Richmond, Ky. (awarded contract); (B), Bradley Contracting Co., 1 Madison Ave., New York; (C), American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa.; (D), Dravo & Flinn, 814 Lewis Block, Pittsburg, Pa.; (E), Anthony C. Douglass & Co., Niagara Falls, N. Y.; (F), George W. Jackson Inc, 46 Wall St., New York; (G), The Degnon Contracting Co., 60 Wall St., New York; (H), Buffalo Dredging Co., 306 D. S. Morgan Bldg., Buffalo, N. Y.; (I), Rinehart & Dennis Co., Evans Building, Washington, D. C.; (J) Average bid.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
40 lin. ft. construction shafts, except shaft 2, in earth	$180.00	$100.00	$200.00	$250.00	$80.00	$260.00	$200.00	$250.00	$250.00	$196.67
870 lin. ft. construction shafts, except shaft 2, in granite	250.00	225.00	180.00	300.00	80.00	290.00	300.00	300.00	300.00	247.22
1,150 lin. ft. construction shafts, except shaft 2, in rock other than granite	200.00	150.00	180.00	275.00	284.00	290.00	300.00	285.00	250.00	246.00
105 lin. ft. shaft 2 (construction shaft) in earth	200.00	100.00	180.00	300.00	280.00	260.00	300.00	250.00	250.00	235.56
385 lin. ft. shaft 2 (construction shaft) in rock	230.00	150.00	180.00	275.00	284.00	290.00	300.00	285.00	250.00	249.33
145 lin. ft. refilling construction shafts	6.00	10.00	5.00	5.00	5.00	8.00	7.00	8.00	10.00	7.11
150 lin. ft. downtake shaft in earth	180.00	150.00	250.00	250.00	280.00	190.00	350.00	400.00	300.00	261.11
4,350 cu. yds. rock excavation in downtake shaft	15.00	18.00	25.00	15.00	25.00	8.50	15.00	15.00	18.00	17.17
80,000 cu. yds. excavation of tunnel in granite	6.75	7.00	6.00	7.20	4.00	5.90	6.00	7.00	7.25	6.34
180,000 cu. yds. excavation of tunnel in all kinds of material except granite	5.40	5.50	6.00	5.65	7.00	5.60	5.50	5.75	6.40	5.87
800 sq. yds. additional trimming in shafts and tunnel	4.00	3.00	5.00	4.00	5.00	4.00	4.00	5.00	5.00	4.33
990,000 lbs. furnishing structural steel roof support	.03	.04	.04	.03	.04	.03	.03	.03	.04	.03⅓
990,000 lbs. erecting structural steel roof support	.01	.02	.01	.01	.01	.03	.01	.02	.01	.014
240 M. ft. B. M. temporary timbering	60.00	50.00	60.00	60.00	60.00	75.00	70.00	60.00	50.00	60.55
425,000 million ft. gal. pumping from shafts and tunnel during construction	.15	.20	.10	.15	.10	.25	.25	.25	.20	.183
28,240 lin. ft. drainage channels for shafts and tunnel	1.25	1.00	3.00	1.50	3.00	2.00	2.00	2.00	1.50	1.92
585 lin. ft. forms for lining downtake shaft	8.00	10.00	11.00	6.00	10.00	6.00	6.00	7.00	6.00	7.77
355 lin. ft. form for lining access shaft	8.00	10.00	4.00	6.00	4.00	6.00	5.00	6.00	6.00	6.11
25,130 lin. ft. forms for lining tunnel	4.00	3.50	3.00	2.00	3.00	2.50	5.00	3.00	2.00	3.11
7,300 cu. yds. concrete masonry in shafts	8.00	6.00	6.00	7.00	5.00	6.50	7.00	6.00	10.00	6.83
106,300 cu. yds. concrete masonry in tunnel	5.25	5.75	6.12	5.50	6.10	5.60	5.50	6.00	6.00	5.76
5,500 cu. yds. excess concrete masonry in shafts and tunnel	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
200 cu. yds. brick masonry in shafts and tunnel	15.00	15.00	15.00	15.00	20.00	14.00	20.00	18.00	20.00	16.89
6,700 cu. yds. dry packing in tunnel	2.50	3.00	3.00	2.50	3.00	2.50	2.50	2.50	2.50	2.67
28,000 cu. yds. furnishing and erecting steel castings	.10	.10	.06	.10	.06	.11	.10	.12	.20	.106
90,000 cu. yds. structural steel interlining in access shaft	.10	.10	.05	.06	.05	.07	.07	.07½	.06	.071
60 lin. ft inclined hole for blow-off, Moodna siphon to W. test shaft at H. R.	30.00	10.00	10.00	25.00	5.00	30.00	10.00	40.00	50.00	23.33
60 lin. ft. drift for blow-off, Moodna siphon to W. test shaft at H. R	30.00	20.00	18.00	50.00	10.00	45.00	10.00	60.00	40.00	31.44
2,600 lin. ft. drilling 1½-inch or smaller holes in rock or masonry	.40	.50	.50	.30	.50	.35	.60	.50	.50	.46
2,600 lin. ft. drilling holes 1¾-inch to 2½-inch in rock or masonry	.50	.50	.60	.40	.60	.40	.70	.60	.60	.544
50,000 lin. ft. steel pipe for grouting, etc	.20	.25	.30	.20	.30	.25	.20	.25	.20	.24
Miscellaneous plant and equipment for grouting (lump sum)	5,000.00	5,000.00	10,000 00	5,000.00	12,000.00	3,000.00	12,000.00	5,000.00	5,000.00	6,888.89
8 compressors high-pressure air-compressors for grouting	300.00	300.00	500.00	250.00	510.00	400.00	300.00	300.00	300.00	351.11
8 machines, tank grouting machines	250.00	300.00	400.00	200.00	410.00	300.00	300.00	250.00	300.00	301.11
30 pads, grouting pads	60.00	50.00	100.00	60.00	100.00	65.00	60.00	70.00	60.00	69.44
8,000 making connections of tank grouting machines to grout pipes	1.00	.75	1.00	.50	1.00	.80	.60	1.00	1.00	.85
2,500 setting grouting pads	1.00	1.00	2.00	.50	2.00	1.25	1.00	1.00	1.00	1.19
2,700 tons sand for grout	1.50	2.00	2.00	1.50	2.00	1.75	1.50	2.00	2.00	1.81
3,700 cu. yds. mixing and placing grout	4.00	4.00	5.00	4.00	5.00	4.50	5.00	4.00	4.00	4.39
2 hydrostatic tests of pressure tunnel	3,000.00	2,000.00	3,000.00	3,500.00	3,000.00	5,000.00	6,000.00	4,000.00	3,000.00	3,611.11
7,000 cu. yds. excavation in open cut	1.00	.50	1.00	.75	1.00	.60	.80	.60	1.00	.80½
22,000 cu. yds. refilling and embanking	.40	.30	.50	.30	.50	.60	.30	.35	.40	.41
26,000 cu. yds. excavating top-soil	.50	.50	.50	.40	.50	.50	.50	.50	.50	.49
22,000 cu. yds. surface dressing of earth	.50	.40	.50	.60	.50	.70	.70	.60	.50	.55½
15 M. ft. B. M. timber and lumber	50.00	60.00	40.00	60.00	40.00	80.00	70.00	60.00	50.00	56.67
2,400 concrete masonry in open cut	5.50	5.50	7.00	5.50	7.00	5.30	7.00	6.00	5.50	6.03
180 cu. yds. reinforced concrete not in tunnel	15.00	8.00	20.00	8.00	20.00	6.50	8.00	10.00	6.00	11.28
83,000 lbs. steel for reinforcing concrete	.05	.03	.03	.04	.03	.06	.04	.04	.04	.04
61,000 lbs. miscellaneous cast iron, wrought iron and steel	.06	.05	.06	.06	.06	.10	.06	.06	.04	.07
9,000 lbs. galvanizing	.05	.01	.05	.05	.05	.02¼	.04	.04	.10	.04½
202,000 bbls. Portland cement	1.20	1.35	1.40	1.35	1.40	1.50	1.45	1.45	1.35	1.38
240,000 lbs. sulphate of alumina for waterproofing concrete, mortar or group	.03	.02	.02	.02	.02	.02¼	.02	.02	.02	.02
8 tons cast-iron pipe and special pipe castings	90.00	100.00	100.00	75.00	100.00	90.00	90.00	100.00	100.00	93.89
5 gates miscellaneous gates and valves	100.00	75.00	60.00	50.00	60.00	100.00	90.00	100.00	100.00	81.67
2 700 lbs. bronze pipe and miscellaneous bronze	.65	.75	.60	.55	.60	.80	.55	.75	.80	.67
800 lin. ft. vitrified pipe (15-inch and smaller)	1.00	.50	1.50	1.00	1.50	.75	1.00	1.25	1.00	1.06
550 cu. yds. dry rubble masonry and paving	3.00	3.50	3.00	3.50	3.00	9.00	2.50	2.50	3.00	3.67
50 cu. yds. rubble masonry and paving in mortar	5.00	4.50	5.00	3.50	5.00	9.00	3.50	4.00	4.00	4.83
600 cu. yds. surfacing permanent roads	2.00	3.00	2.50	2.00	2.50	9.00	2.60	2.50	3.00	3.17
50 lin. ft. reinforced concrete ladders	3.00	10.00	2.00	2.00	2.00	3.00	2.00	3.50	2.00	3.28
7 locker houses	1,500.00	1,500.00	2,000.00	1,500.00	2,000.00	1,000.00	1,600.00	1,500.00	1,500.00	1,566.67
(Lump sum) cleaning up	......	......	......	......	......	......	......	......	......	6,389.00
Total	$3,492,511	$3,497,090	$3,651,536	$3,741,285	$3,746,745	$3,764,265	$3,857,595	$3,951,815	$3,978,280	

Bond required: $600,000. Time, 44 months

*CATSKILL AQUEDUCT.—New York, N. Y.—The following itemized bids were received on June 1 by the Board of Water Supply for Contract 45, portion of the Newburgh Division, Catskill Aqueduct, from (A), PITTSBURG CONTRACTING CO., 1942 Forbes St., Pittsburg, Pa.; (B), Rinehart & Dennis Co. and Faulconer, Evans Bldg., Washington, D. C.; (C), Acme Engineering & Contracting Co., 100 Broadway, New York; (D), American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa.; (E), the M. A. Talbott Co., 1110 American Bldg., Baltimore, Md.; (F), Richard E. Heningham, 1 Madison Ave., New York; (G), Rodgers & Hagerty, 121 West 125th St., New York; (H), George Milton Painter, 77 Jackson Boulevard, Chicago, Ill.; (I) Lathrop, Shea & Henwood Co. and Transit Construction Co., Buffalo, N. Y.; (J), the Clement-King Co., Inc., Land Title Bldg., Philadelphia, Pa.; (K), Scott, Smith, White Contracting Co., Memphis, Tenn.; (L), average bid.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
85,000 cu. yds. removal of top-soil	.40	.35	.45	.54	.40	.40	.47	.81½	.35	.50	.40	.46
56,000 cu. yds. open-cut excavation, Station 1811 to Station 1848, Type B	.57	.50	.60	.54	.60	.45	.54	.636	.60	.70	.80	.59
272,000 cu. yds. open-cut excavation, Station 1848 to Station 1881, Type A	.57	.50	.40	.54	.50	.50	.50	.53	.65	.75	.90	.58
144,000 cu. yds. open-cut excavation, Station 1881 to Station 1912, Type A	.57	.60	.90	.54	.90	.78	1.25	1.18	.85	1.25	1.50	.94
143,000 cu. yds. open-cut excavation, Station 1912 to Station 2021 + 25, Type B.	.57	.42	.50	.54	.55	.50	.54	.54	.65	.55	.70	.55
106,000 cu. yds. open-cut excavation, Station 2055 + 50 to Station 2126 + 93.41, Type B	.57	.45	.50	.54	.60	.50	.54	.52	.70	.50	.75	.56
67,000 cu. yds. refilling and embanking, Station 1811 to Station 1848	.27½	.30	.25	.30	.30	.35	.24	.35	.30	.45	.40	.32
82,000 cu. yds. refilling and embanking, Station 1848 to Station 1881	.27½	.30	.25	.30	.40	.35	.24	.35	.35	.35	.45	.33
42,000 cu. yds. refilling and embanking, Station 1881 to Station 1912	.27½	.30	.25	.30	.40	.35	.24	.35	.35	.60	.50	.35½
210,000 cu. yds. refilling and embanking, Station 1912 to Station 2021 + 25	.27½	.35	.30	.30	.35	.35	.24	.38	.40	.50	.60	.37
157,000 cu. yds. refilling and embanking, Station 2055 + 50 to Station 2126 + 93.41	.27½	.35	.30	.30	.30	.35	.24	.39	.40	.45	.60	.36
57,000 cu. yds. surface dressing and grassing	.40	.50	.45	.40	.50	.45	.30	.83	.45	.40	.50	.47
140,000 cu. yds. concrete masonry for aqueduct in open cut and on embankment	5.25	5.25	5.25	5.25	4.99	5.50	5.50	5.00	5.65	6.75	6.25	5.51
8,000 cu. yds. concrete masonry for culverts, retaining walls, etc	6.00	7.00	8.00	7.00	7.00	7.00	7.50	7.50	6.00	7.00	6.25	6.93
400 cu. yds. rubble masonry and paving in mortar	4.00	5.00	5.00	4.00	4.00	3.50	3.65	7.00	5.25	7.00	4.00	4.76
180,000 bbls. Portland cement	1.30	1.35	1.35	1.60	1.50	1.45	1.50	1.45	1.55	1.60	1.60	1.48
2,200 cu. yds. dry rubble masonry and paving	3.00	4.00	3.50	2.50	3.00	3.00	3.65	4.00	4.50	6.50	4.50	3.83
400 cu. yds. crushed stone and gravel	2.00	2.00	3.00	3.00	2.00	2.50	2.40	1.50	2.75	2.75	2.00	2.36
500 cu. yds. surfacing macadam roads	3.00	3.00	4.00	4.75	3.00	3.00	1.21	2.25	3.75	3.00	3.00	3.09
4 sluice-gates	100.00	100.00	150.00	100.00	125.00	100.00	91.00	90.00	100.00	100.00	125.00	107.36
2 tons cast-iron pipes and special castings	100.00	100.00	100.00	100.00	150.00	100.00	61.00	84.00	75.00	100.00	100.00	97.27
2,500 lin. ft. vitrified pipe	1.00	1.00	1.00	1.00	1.30	1.50	1.21	1.20	1.00	1.50	1.00	1.16
250 M. ft. B. M. timber and lumber	50.00	50.00	60.00	40.00	50.00	55.00	36.30	50.00	48.00	60.00	75.00	52.21
3,000 lin. ft. stone boundary walls	1.00	1.50	1.50	2.25	1.50	1.10	.91	2.25	1.00	2.00	4.00	1.73
9,500 lin. ft. fences and guard rails	.30	.40	.40	.30	.35	.35	.24	.25	.30	.30	.40	.32½
550,000 lbs. steel for reinforcing concrete	.03	.04	.04	.03	.04	.03½	.03	.04	.04½	.05	.05	.04
4,000 lbs. wrought iron, cast iron and steel	.08	.10	.06	.08	.10	.06	.06	.06	.06	.05	.06	.07
.800 lbs. bronze	1.00	.80	.60	1.00	.75	.50	.91	.40	.50	.60	.60	.69½
4,000 lbs. galvanizing	.04	.10	.05	.02	.05	.05	.04	.06	.06	.05	.25	.07
8 testing portions of aqueduct	500.00	800.00	800.00	500.00	800.00	750.00	605.00	525.00	900.00	600.00	1,000.00	707.27
2,600 lin. ft. testing portions of aqueduct, exceeding 200 ft. in length	2.00	2.00	2.00	1.50	2.00	2.50	2.25	1.75	2.50	2.00	2.50	2.00
Field offices with horse sheds	5,000.00	6,000.00	6,500.00	10.000.00	10,000.00	10.330.00	9,680.00	7,000.00	5,500.00	7,200.00	5,000.00	3,736.82
Cleaning up (lump sum)	2,000.00	3,000.00	5,000.00	2,000.00	3,000.00	5,000.00	1,210.00	10,000.00	4,000.00	6,000.00	10,000.00	4,655.45
Totals	$1,675,290	$1,683,100	$1,706,770	$1,741,495	$1,767.725	$1,789,115	$1,803,109	$1,878,069	$1,939,755	$2,234,330	$2,346,120	

Bond required: $440.000. Time, 42 months.

ABUTMENT, PIERS, ETC.—Wheeling, W. Va.—The following itemized bids, received on June 8, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for constructing abutment, piers and weirs for Dam No. 11, Ohio River, were submitted by (A), the Hollerbach & May Contract Co., Evansville, Ind.; (B), the H. E. Talbott Co., Dayton, Ohio; (C) the Dravo Contracting Co., Pittsburg, Pa.; (D), the Ohio River Contract Co., Evansville, Ind.; (E), the T. A. Gillespie Co., Pittsburg, Pa.:

	(A)	(B)	(C)	(D)	(E)
28,000 cu. yds. excavation	$0.90	$1.00	$1.20	$1.25	$1.50
2,200 cu. yds. fill	.75	1.00	.50	.75	1.10
9,000 cu. yds. riprap	3.00	4.00	3.00	3.00	3.00
20,000 lin. ft. round piles	.60	.70	.90	.40	.62
181,000 ft. B. M. sheet piles	80.00	100.00	120.00	125.00	85.00
17,000 ft. B. M. sheeting, 4-in	70.00	80.00	70.00	80.00	75.00
218,000 ft. B. M. common timber	80.00	85.00	80.00	72.00	60.00
84,000 ft. B. M. deck timber	80.00	100.00	90.00	82.00	60.00
49,000 ft. B. M. oak timber	100.00	120.00	120.00	100.00	100.00
35,000 ft. B. M. yellow-pine timber	100.00	100.00	120.00	80.00	100.00
9,200 cu. yds. concrete	7.00	9.00	8.00	5.75	5.00
720,000 lbs. structural steel	.08	.08	.07¾	.07.2	.07
29,000 lbs. reinforcing rods	.05	.06	.04	.05	.04
71,000 lbs. forgings	.06	.07	.07¾	.07	.07
66,000 lbs. bolts, etc	.05	.07	.07¾	.07	.04
72,000 lbs. iron castings	.05	.06	.07¾	.07	.05
108,000 lbs. steel castings	.08	.08	.07¾	.07	.09
1,100 lbs. bronze	.40	.40	.55	.50	1.00
1,600 lin. ft. pipe, 3-in	1.00	.75	1.20	1.00	1.00
900 in. ft. pipe, 1½-in	1.00	.75	.50	.75	.80
4 flanged tees, 3-in	10.00	5.00	6.00	10.00	5.00
20 flanged long-radius elbows, 3-in	5.00	6.00	7.25	9.00	6.00
32 companion flanges, 3 in	2.00	2.00	1.00	1.50	6.00
8 companion flanges, 1½-in	1.00	2.00	.75	1.25	2.00
6 globe valves, 3-in	10.00	17.50	25.00	24.00	20.00
6 cocks, 2-in	1.00	7.00	9.00	9.00	6.00
6 expansion joints	10.00	25.00	8.00	9.00	8.00
3 drip pockets	30.00	40.00	12.00	15.00	25.00
Total	$260.698	$303,612	$296,287	$257,699	$249,537

MISCELLANEOUS CONTRACTS.

(Continued from page 202.)

SUBWAY.—Buffalo, N. Y.—Contract for the double subway to be constructed under the Erie Railroad Co.'s tracks at Bailey Ave. and William St. has been awarded to HENRY P. BURGARD, 275 Lathrop St., Buffalo, at $116,854.

IRON RAILINGS.—New York, N. Y.—Bids are asked until 3 p. m., June 24, by the Department of Parks, for furnishing and erecting iron railings around the grass plots in Broadway, between 72d and 82d Sts., Boro. of Manhattan.

STEAMBOAT REPAIRS.—New Yofk, N. Y.—Bids are asked by the Department of Public Charities until 2.30 p. m., June 21, for furnishing all the labor and material required for making general repairs to the steamboat "Thomas M. Mulry."

DITCHES.—Warren, Minn.—Judge Grindeland has issued order for the construction of ditches Nos. 84 and 85, in Kittson County; ditch No. 86, in Roseau County, and ditch No. 83, in Marshall County, calling for a total expenditure of $125,000.

*TUNNEL.—Chicago, Ill.—Bids were received on May 27 by the Chicago Rys. Co. for reconstruction of the Washington St. tunnel between Clinton St. and Canal St. Contract was awarded to the GEO. W. JACKSON CO., Rookery Bldg., Chicago, at $81,874.

SUPPLIES.—Kansas City, Mo.—Bids will be received until June 23 by E. Winstanley, Purchasing Agent, for furnishing the following city supplies for a year, ending July 1, 1910: Iron and bronze castings, lumber, cement, vitrified paving brick, sewer pipe, etc.

PAINTING FERRYBOATS.—New York, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, June 22, for Contract No. 1177, for furnishing all the labor and materials required for preparing for and painting the hulls of the municipal ferryboats.

PIER.—New York, N. Y.—Bids are asked until noon, June 25, by the Department of Docks and Ferries, for Contract No. 1181, for furnishing all the labor and materials required for preparing for and building a new pier at the foot of Jamaica Ave., Astoria, Boro. of Queens.

DREDGING.—Los Angeles, Cal.—Bids were received on June 4 by Capt. Amos A. Fries, Corps Engrs., U. S. A., Los Angeles, for dredging at San Diego Harbor, Cal.; $30,000 is available for this work. The lowest bidder was the California Reclamation Co., of San Francisco, at 28.74 cts. per cu. yd.

*TOWBOAT.—New Orleans, La.—Bids were received on June 1 by Capt. H. Burgess, Corps Engrs., U. S. A., 3338 St. Charles Ave., New Orleans, for constructing and delivering a steel hull, sternwheel towboat. Bid of E. J. Howard, Jeffersonville, Ind., at $38,700, has been recommended for acceptance.

DITCH.—Valparaiso, Ind.—Bids will be received in July or August for the construction of the Burns Ditch. Estimated cost, $270,000. Estimated quantity of earth excavation, 2,823,000 cu. yds. There will be required three floating dredges, steam shovels, suction dredge, etc. G. F. Stinchfield, Valparaiso, Ind., is the Engr.

*DREDGING.—Baltimore, Md.—Bids were received by Maj. W. E. Craighill, Corps Engrs., U. S. A., May 24 for dredging in Southwest Baltimore Harbor and Curtis Bay Channel, Md.: (approximately 730,000 cu. yds.). The lowest bid was submitted by the Sanford & Brooks Co., Baltimore, at 9.9 cts. per cu. yd.

*LOCK.—Cincinnati, Ohio.—Contract for building new lock on Kentucky River at Willow, Ky., has been awarded to SMITH, TOWLES & CO., of Roderfield, W. Va., at $272,960. Bids for this work were opened Apr. 23 by Lieut Col. J. G. Warren, Corps Engr., U. S. A., Cincinnati. For bids received for the work see issue of May 13.

DREDGING.—Chicago, Ill.—Bids as follows were received by Maj. Thomas H. Rees, Corps Engrs., U. S. A., on June 11, for redredging turning basins in Chicago River: Great Lakes Dredge & Dock Co., Commerce Bldg., Chicago, $19,460; Fitz Simmons & Connell Co., 131 La Salle St., Chicago, $20,572; Buffalo Dredging Co., Buffalo, N. Y., $26,132.

DITCH.—Webster City, Iowa.—Bids will be received until June 21 by the Board of County Supervisors for constructing Mud-Lake Drainage Ditch No. 71 and Fardal Drainage Ditch No. 72, consisting of about 641,580 and 107,613 cu. yds. respectively; also about 70,000 ft. tile, ranging in size from 8 to 28-in. J. A. Stover, County Audr.

*RIPRAP.—Ashland, Wis.—Bids were received on June 8, by Lt.-Col. Graham D. Fitch, Corps Engrs., U. S. A., Duluth, Minn., for furnishing riprap at Ashland. About $25,000 will be expended. The bid of ALEX. SANG, Duluth, Minn., was accepted as follows: Division A—sandstone, granite or trap, $1.05 per ton; Div. B.—granite or trap, $2.10 per ton.

LIFE-BOATS.—New York, N. Y.—Bids for the construction of four 36 ft. self-righting and self-bailing life boats with gasoline engines, to be delivered at New York, were received by the Life Saving Service, Washington, D. C., on June 1. The lowest bidder was the Hampton Roads Boat Building Co., Newport News, Va., at $30,624; time, nine, ten, eleven and twelve months.

FLOATING BATHS.—New York, N. Y.—Bids were received on June 1 by John F. Ahearn, Pres. Boro. of Manhattan, for repairs and alterations to baths and pontoons for the free floating baths; repairing and painting the roofs and painting free floating baths. The lowest bid was $9,875, submitted by Ward & Co., Astoria, L. I., N. Y.

AIR COMPRESSORS.—Washington, D. C.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., July 10 (postponement from June 26), for furnishing and installing three 5,000-cu. ft. air compressors and accessories at the navy yards at New York, Philadelphia and Mare Island, Cal. Specifications are on file at the office of Engineering News, New York.

DITCHES.—Fairmont, Minn. — Contracts have been awarded as follows: Judicial Ditch No. 4, Ormsby, Minn., to NAYER BROS., Nankato, Minn., at $6,361. The lowest bid for tile branches was the St. James Tile Mfg. Co., St. James, Minn., at $9,912. For Judicial Ditch No. 8, Rutland Township, to SUTCLIFFE & BRYANT, New Ulm, Minn., at $6,990; for tile work, to the FAIRMONT CEMENT STONE MFG. CO., Fairmont, at $26,030.

CRIBWORK, ETC.—New York, N. Y.—Bids were received as follows by the Department of Parks on June 3 for rebuilding cribwork and filling in bank on the easterly side of the Harlem River, in Macombs Dam Park, Boro. of the Bronx: Almo Construction Co., 215 West 125th St., $789,010; John F. O'Hara, $1,047,448; J. B. Malatesta, 3169 Jerome Ave., $1,306,830; Phoenix Construction Co, 41 Park Row, $1,414,150; Wm. P. McDonald, $1,438,740.

STEAMERS.—Sparrows Point, Md.—The MARYLAND STEEL CO., Baltimore, has been awarded contract to build three large combination freight and passenger steamers for the American-Hawaiian Steamship Co., which operates a line of vessels between San Francisco, Seattle, Tacoma, Portland, San Diego, Salina Cruz, Manzanilio, Honolulu and Hilo. Estimated cost, $1,750,000.

The Maryland, Delaware & Virginia Ry. Co. has awarded contract to the MARYLAND STEEL CO. for a new steamer.

FIRE ALARM SYSTEM.—New York, N. Y.—The Board of Estimate and Apportionment has appropriated $100,000 for the preparation of plans for a new fire alarm system. The lower part of the city has a high pressure system, and work is progressing on its extension. It is expected that the plans for the proposed fire alarm system will be ready for advertising within ninety days. It will cost about $3,000,000. For the extension of the high pressure service in South Brooklyn $750,000 was appropriated.

*DAMS, ETC.—Rock Island, Ill.—Bids were received on May 27 by Maj. C. S. Riche, Corps Engrs., U. S. A., Rock Island, for construction and repair of dams and shore protections between (a) Rock Island, Ill., and Burlington, Iowa, and between (b) Burlington, Iowa, and Hannibal, Mo. For (a) the bid of A. J. Whitney, Rock Island, has been recommended for acceptance at $1.45 for rock, per cu. yd., and 55 cts. per cu. yd. for brush, allowing for 33,000 cu. yds. of work as $33,000 is available. For

(b) the bid of Albert V. Fetter, Quincy, Ill., has been recommended at $1.52 for rock and 60 cts. for brush, allowing for 31,132 cu. yds. of work; $33,000 is available.

*DREDGING.—Baltimore, Md.—Bids were received as follows on June 1 by Maj. W. E. Craighill, Corps Engrs., U. S. A., Custom House, Baltimore, for dredging in Patapsco River, Md. (about 1,500,000 cu. yds.): The Coastwise Dredging Co., Norfolk, Va., 5.6 cts. per cu. yd.; Sanford & Brooks Co., Baltimore, 6.9 cts.; American Dredging Co., Philadelphia, Pa., 6.25 cts.; Maryland Dredging & Contracting Co., Baltimore, 5 cts.; Standard Dredging Co., Wilmington, Del., 7.2 cts.; P. Sanford Ross, Jersey City, N. J., 6.7 cts.

DREDGING.—Portland, Me.—Bids were received on June 4 by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., Portland, for dredging in Union River, Me. The work calls for the removal of 13,500 cu. yds. of material at the mouth of the river and 46,500 cu. yds. at Ellsworth. Bids were received as follows: Philip H. Doyen Co., Portland, 17½ cts. per cu. yd. at the mouth of the river and 24½ cts. at Ellsworth; P. O. Riorden Dredging Co., Charlestown, Mass., 32⅝ cts. and 34⅝ cts., respectively; John H. Gerrish, Boston, 22.7 cts. and 24.7 cts.

*DREDGING.—New York, N. Y.—Bids were received as follows by Col. D. W. Lockwood, Corps Engrs., U. S. A., June 8 for dredging in (a) Shrewsbury River; (b) Woodbridge Creek; (c) Keyport Harbor; (d) Matawan Creek; (e) Raritan, and (f) South River, N. J.: John & Jos. McSpirit, 118 Wayne St., Jersey City, (a) 28 cts. per cu. yd., scow measurement; (b) 28 cts.; (c) 28 cts.; (d) 28 cts.; (e) 40 cts.; (f) 40 cts. P. Sanford Ross, Inc., 277 Washington St., Jersey City, (a) 36 cts.; (b) 32 cts.; (c) 30 cts.; (e) 30 cts.; (f) 30 cts. The Newburgh Dredging Co., Newburgh, N. Y.: (a) 26.75 cts.

DREDGING.—Baltimore, Md.—Bids were received as follows on June 7, by Maj. W. E. Craighill, Corps Engrs., U. S. A., Baltimore, for dredging Claibone Harbor, Elk, Chester, Warwick, La Trappe, Wicomico and Pocomoke Rivers, Md., Nanticoke River, Del. and Md., and Broad Creek River, Del., (about 335,000 cu. yds.): Miner Engineering Co., Washington, D. C., 17.4 cts. per cu. yd.; Maryland Dredging & Contracting Co., Baltimore, 13.9 cts.; Atlantic Dredging Co., Philadelphia, 14⅜ cts.; River & Harbor Improvement Co., Philadelphia, 11.95 cts.; L. M. Lewis Dredging Co., Norfolk, Va., 12½ cts.

*EMBANKMENT.—Greenville, Miss.—Bids have been received by the Board of Missisipi Levee Commissioners for the construction of about 850,000 cu. yds. of embankment in the Mississippi Levee District. C. H. West is Ch. Engr. Contracts have been awarded as follows: To R. L. LEONARD & CO., Memphis, Tenn.. Landside banquette enlargement, 6,000 cu. yds., at 16.7 cts. per cu. yd.; riverside levee enlargement, 14,000 cu. yds., at 24.95 cts.; road crossing, 6,000 cu. yds., at 23 cts.; riverside levee, 120,000 cu. yds., at 26.95 cts. To LOWRANCE BROS., Memphis, TENN.: Riverside levee enlargement, 78,000 cu. yds., at 22.9 cts.; same, 71,500 cu. yds., at 29.9 cts. To JOS. G. SISSIONS, Memphis, Tenn.: Riverside levee enlargement, 90,000 cu. yds., at 19.44 cts.; landside levee enlargement, 58,000 cu. yds., at 19.98 cts. To HELGASON, CLARK & PARKER, Vicksburg, Miss.; Riverside levee enlargement, 50,000 cu. yds., at 15.4 cts. and 100,000 cu. yds., at 16.87 cts., same, 238,000 cu. yds., at 18.87 cts.

BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. of Public Works, until noon, July 13th, on five additional Barge Canal contracts, as follows: Contract No. 20-A, Erie Canal, Section 4, for river and land line and other work necessary to complete the canal between Little Falls and Mindenville, a distance of 4.5 miles; engineer's estimate, $499,000. Contract No. 20-B, Erie Canal, Section 3, for dredging a channel in the Mohawk River and performing work incidental thereto between Mindenville and Canajoharie, a distance of 10.1 miles; engineer's estimate, $848,540. Contract No. 20-C, Erie Canal, Section 3, for dredging a channel in the Mohawk River and performing work incidental thereto between Canajoharie and Yosts, a distance of 7.9 miles; engineer's estimate, $570,600. Contract No. 20-D, Erie Canal, Section 2, for dredging a channel in the Mohawk River and performing work incidental thereto between Yosts and Rexford Flats, a distance of 36.2 miles; engineer's estimate, $2,260,000. Contract No. 23, Erie Canal, Section 9, for constructing the land line of the canal from Kings Bend to Genesee River, in Monroe County, a distance of 5.63 miles; engineer's estimate, $2,166,600. The work embraced in Contracts Nos. 20-A, 20-B, 20-C and 20-D was formerly included in a single contract known as No. 20. In the form of one piece of work, the contract has been advertised several times, but no bids were received, except in one instance, when they were rejected as excessive. The work involves the canalization of the Mohawk River. In Contract No. 23, besides nearly 3,000,000 cu. yds. of excavation, there is included the construction of two locks, one guard lock, culverts and five bridges, but not including the lock machinery. Frank M. Williams is State Engr.

EXAMINATIONS.

*ASSISTANT ENGINEER.—New York, N. Y.—Applications will be received until 4 p. m., June 29, by the Municipal Civil Service Commission, 299 Broadway, New York, for the position of Assistant Engineer, Board of Water Supply. Salary, $1,350 a year and upwards. Age limit, 21 years. F. A. Spencer is Secy. Comn.

TRADE PUBLICATIONS.

VACUUM PROCESS OF ORE CONCENTRATION.—The Ore Concentration Co., 4 Broad St. Place, London, England. Paper; five bulletins, 8¾ × 11¼ ins.; pp. 4 (each); illustrated.

These bulletins relate to the Elmore vacuum process for the concentration of ores. They include a general description of the process, with particulars of cost, and of the use of the process in Norway and Australia.

WOOD BLOCK PAVEMENT.—The Wyckoff Pipe & Creosoting Co., 50 Church St., New York City. Specifications. Paper; 8½ × 11 ins.; pp. 4.

This folder presents specifications for creosoted wood block pavements, giving what is said to be the best general practice in Europe and America. The first half of the specifications is devoted to grading and subfoundation, concrete foundation and mortar bed. The last half specifies in detail the wood, form, preliminary treatment, testing, inspection and laying of the wooden blocks.

WATER SOFTENING AND PURIFICATION.—Wm. B. Scaife & Sons Co., Pittsburg, Pa. Paper; 6 × 9¼ ins.; pp. 44; illustrated.

This pamphlet is devoted chiefly to water softening by means of the Scaife and We-Fu-Go systems. It also gives some attention to mechanical filtration. Some general information of interest and value is presented, as well as notes on the plants installed by this company. The pamphlet is handsomely presented, including the numerous half-tone illustrations.

For other Proposal Advertisements see pages 47, 48, 50, 52, 54, of Advertisements and Construction News page 204.

STATE HIGHWAYS.

State of Maryland,
State Roads Commission,
Union Trust Building, Baltimore, Md.

NOTICE TO CONTRACTORS.

Sealed proposals for building ten sections of State Highway, aggregating about 36 miles in the following counties of the State, viz.:

Allegheny County—Two miles beginning at Frostburg and running about one mile west to the Garrett County line and beginning about 1,000 ft. east of Frostburg and running about one mile to Eckhardt Mines.

Garrett County—About 5.55 miles beginning at Oakland and extending north towards Thayerville.

Prince George County—5.75 miles, from Marlboro to Meadows.

Harford County—Two miles, from Forest Hill to St. Ignatius Church.

Queen Ann County—Three miles, from Centerville towards Church Hill.

Talbot County—Three miles, from Easton towards Wye Mills.

Somerset County—Three and one-tenth miles, from Princess Anne towards Westover.

Charles County—Five miles, from La Plata to White Plains.

Baltimore County—Two miles on the Philadelphia Pike, from the Baltimore City limits to Herring Run.

Caroline County—Four and four-tenths miles, beginning at Benton and running 2.6 miles north towards Greensboro and beginning at Benton and running 1.8 miles south towards Bureau.

Proposals will also be received for grading, bridging and draining three sections aggregating about 13 miles in the following counties, viz.:

Anne Arundel County—Five miles, beginning at the Calvert County line, near Owings, and running north about five miles towards Lothian.

Calvert County—Three miles, beginning at Anne Arundel County line, near Owings, and running south about three miles towards Sunderland.

St. Mary County—Five and three-tenths miles beginning at Mechanicsville and running south toward Morganza:

Will be received by the State Roads Commission at its office, Union Trust Building, Baltimore, Md., until 12 o'clock noon, the 30th day of June, 1909, at which time and place they will be publicly opened and read.

Bids must be made upon blanks to be furnished by the Commission on application, and payment of two ($2.00) dollars.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Act of General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 11th day of June, 1909.

J. C. BOWERMAN,
Secretary.

JOHN M. TUCKER,
Chairman.

MUNICIPAL CIVIL SERVICE COMMISSION,
299 Broadway,
New York, June 15, 1909.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from TUESDAY, JUNE 15, UNTIL 4 P. M., TUESDAY, JUNE 29, 1909, for the position of

ASSISTANT ENGINEER, BOARD OF WATER SUPPLY.

(No application received by the Commission, by mail or otherwise, after 4 P. M. on June 29 will be accepted.)

The examination will be held on Tuesday, August 3, 1909, at 10 A. M.

The subjects and weights are: Technical, 50; Mathematics, 15; Report, 15; Experience, 20. Percentage required, 75 on technical paper and 70 on all.

Candidates should not apply for this position unless they are ready to accept employment in any part of the State where their services may be needed. Certification will not be made from the resulting eligible list to any other department, except, if necessary, to the Aqueduct Commission, nor will transfers to those who accept appointment be allowed.

The following provisions of the rules have been waived for this examination:

1. Requirement of residence in the State of New York.
2. Requirement that every application shall bear the certificates of four citizens of the City of New York.
3. Requirement that no person who has entered an examination for appointment to a competitive position and failed therein, or who has withdrawn therefrom, shall be admitted within nine months to a new examination for the same position.

Applications must be on forms which may be obtained at the office of the Commission, 299 Broadway (Room 1119), and must be on file not later than 4 P. M., June 29.

Salary, $1,350 per annum and upwards. For further information as to compensation and qualifications for the position, address the Board of Water Supply, No. 299 Broadway, New York City.

Minimum age, 21 years.

F. A. SPENCER,
Secretary.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a sewer known as Section "B" of the South Louisville Branch Sewer, Contract No. 45 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 9th, 1909.

The work will consist mainly of building a reinforced-concrete sewer 10 ft. in diameter; total length, about 3,661 ft., and from 11 ft. to 33 ft. deep; and including about 3,200 cu. yds. of concrete, and 325,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Section 'B,' South Louisville Branch," and addressed to the Commissioners of Sewerage, Equitable Bldg., Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Proposals for the construction of Section "B" of the Northeastern Sanitary Trunk Sewer opened upon June 4th, 1909, were rejected and other sealed proposals for the construction of a sewer known as Section "B" of the Northeastern Sanitary Trunk Sewer, Contract No. [illegible] of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 2d, 1909.

The work will consist mainly of building a concrete sewer about [illegible] feet long, sizes 30 inches and 24 inches in diameter and including about [illegible] cu. yds. of concrete and about 3,000 lbs. of reinforcing steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Section 'B,' Northeastern Sanitary Trunk Sewer" and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

PAVEMENT.

Oneonta, N. Y., June 14, 1909.

Notice is hereby given that sealed proposals for paving Main Street in the City of Oneonta, N. Y., will be received by the Board of Public Works of the City of Oneonta, until 7.30 o'clock P. M., July 7th, 1909, at which time at the Board of Public Works Rooms in the City Building they will be opened publicly.

Proposals will be received for paving with Vitrified Brick, in accordance with the duly adopted specifications, and form of proposal which may be obtained from the undersigned on application.

Bids should be made on the form of proposal adopted, and may be delivered to the undersigned at the time and place fixed for opening the same.

The right is reserved to reject any and all bids.

E. B. HOLMES, Clerk.

U. S. ENGINEER OFFICE, Wilmington, Del., June 15, 1909.—Sealed proposals for dredging Smyrna, St. Jones and Murderkill Rivers, Del., will be received here until 10 a. m., July 2, 1909, and then publicly opened. Information on application. L. H. RAND, Capt., Engrs.

Situations Open

DRAFTSMAN to bill out and detail architectural work; also building foreman and superintendent; permanent positions and interesting opportunities to right parties. BARTLETT & KLING, Contractors, Cedar Rapids, Iowa. 24-1t

VACANCY for designer, experienced in reinforced concrete building and general work. Address "B. A. 24," Engineering News, New York. 24-1t

DRAFTSMAN WANTED—Familiar with centrifugal and turbine pump design; send full information. Address "A. A. 24," Engineering News, New York. 24-1t

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Draughtsman or Estimator

WANTED

who can invest $5,000 to $10,000 to join in structural steel and ornamental iron shop. Can get the business and put up like amount, and want man who is financially interested. Address "E. 18," Engineering News, New York. 24-1t

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FOR SALE

FOR SALE

8—10 inch by 16 inch Porter Locomotives, 36 inch gauge, in first class condition. Near New York.

BARGAIN FOR CASH

Also new Vulcan Dinkies in stock for immediate shipment.

F. W. TRIMBLE
45 Broadway, N. Y. 24-1t